

Magnescale

SPEED X PRECISION

Price list April 2012

All prices are suggested retail prices in €/pcs excl. VAT.

Prices are subject of modification without prior notice.

We are not taking responsibility for mistake in writing.



Digital Measuring Equipment

Magnescale Europe GmbH

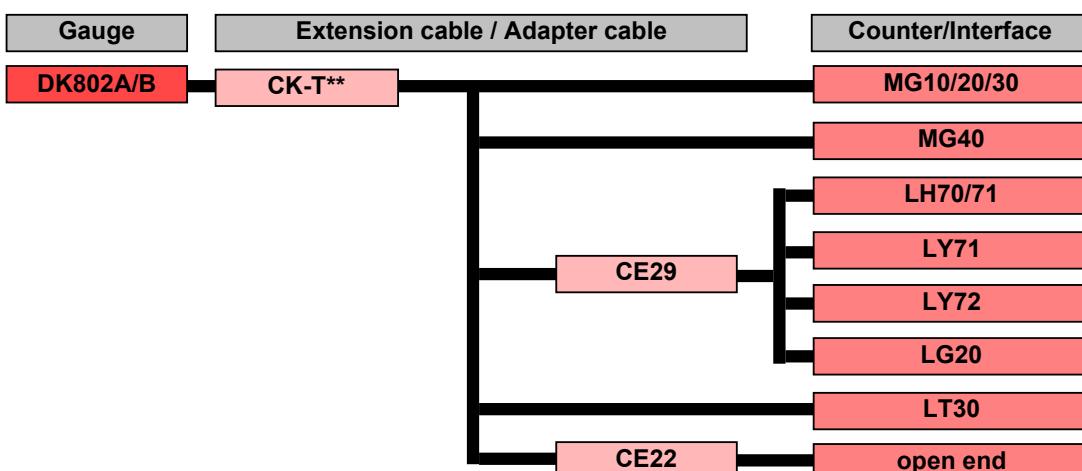
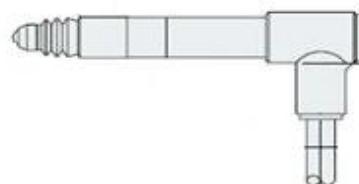
Antoniusstrasse 14, 73249 Wertheim, Germany Tel: +49(0)7153 934 291 Fax: +49(0)7153 934 299

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DK802AR/DK802AR5/
DK802BR/DK802BR5



DK802ALR/DK802ALR5/
DK802BLR/DK802BLR5



Resolution: 0,5µm Accuracy: 1,5µm p-p Max response speed 250m/min Measuring length: 2mm

Product code	Product	Model	SRP
97928464	DK802AR5	Straight	
97928465	DK802ALR5	Right angel	

Resolution: 0,5µm Accuracy: 1,5µm p-p Max response speed 100m/min Measuring length: 2mm

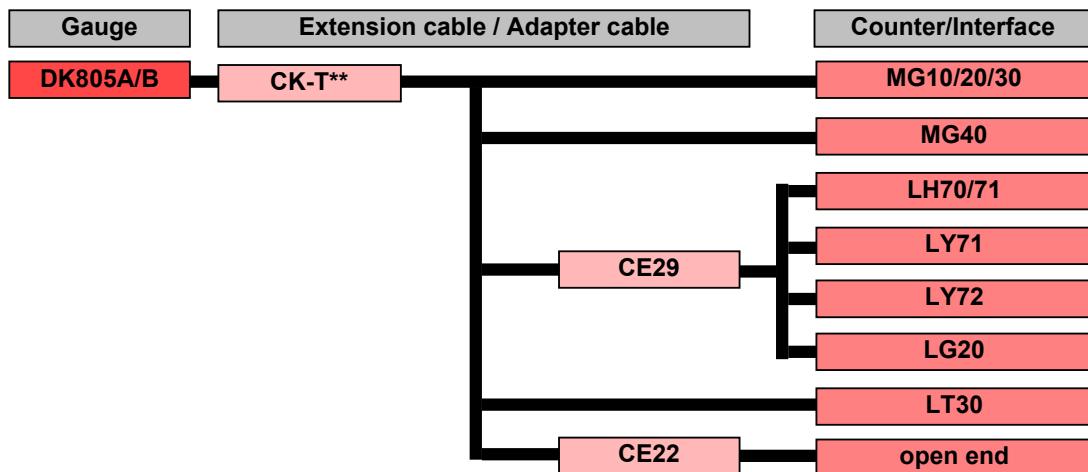
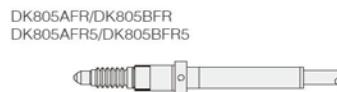
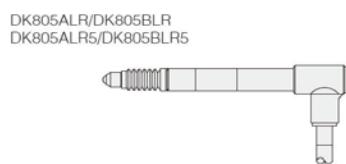
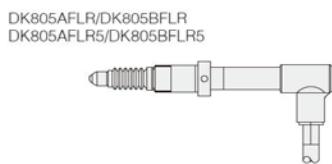
Product code	Product	Model	SRP
97928492	DK802BR5	Straight	
97928493	DK802BLR5	Right angel	

Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 80m/min Measuring length: 2mm

Product code	Product	Model	SRP
97928462	DK802AR	Straight	
97928463	DK802ALR	Right angel	

Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 42m/min Measuring length: 2mm

Product code	Product	Model	SRP
97928490	DK802BR	Straight	
97928491	DK802BLR	Right angel	



Resolution: 0,5µm Accuracy: 1,5µm p-p Max response speed 250m/min Measuring length: 5mm

Product code	Product	Model	SRP
97928852	DK805AR5	Straight	
97928853	DK805ALR5	Right angel	
97928854	DK805AFR5	Flange / Straight	
97928855	DK805AFLR5	Flange / Right angle	

Resolution: 0,5µm Accuracy: 1,5µm p-p Max response speed 100m/min Measuring length: 5mm

Product code	Product	Model	SRP
97928860	DK805BR5	Straight	
97928861	DK805BLR5	Right angel	
97928862	DK805BFR5	Flange / Straight	
97928863	DK805BFLR5	Flange / Right angle	

Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 80m/min Measuring length: 5mm

Product code	Product	Model	SRP
97928848	DK805AR	Straight	
97928849	DK805ALR	Right angel	
97928850	DK805AFR	Flange / Straight	
97928851	DK805AFLR	Flange / Right angle	

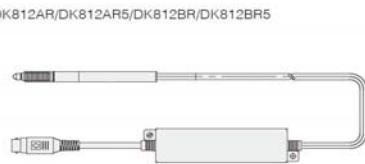
Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 42m/min Measuring length: 5mm

Product code	Product	Model	SRP
97928856	DK805BR	Straight	
97928857	DK805BLR	Right angel	
97928858	DK805BFR	Flange / Straight	
97928859	DK805BFLR	Flange / Right angle	

DK812AR/DK812AR5/DK812BR/DK812BR5

DK812ALR/DK812ALR5/DK812BLR/DK812BLR5

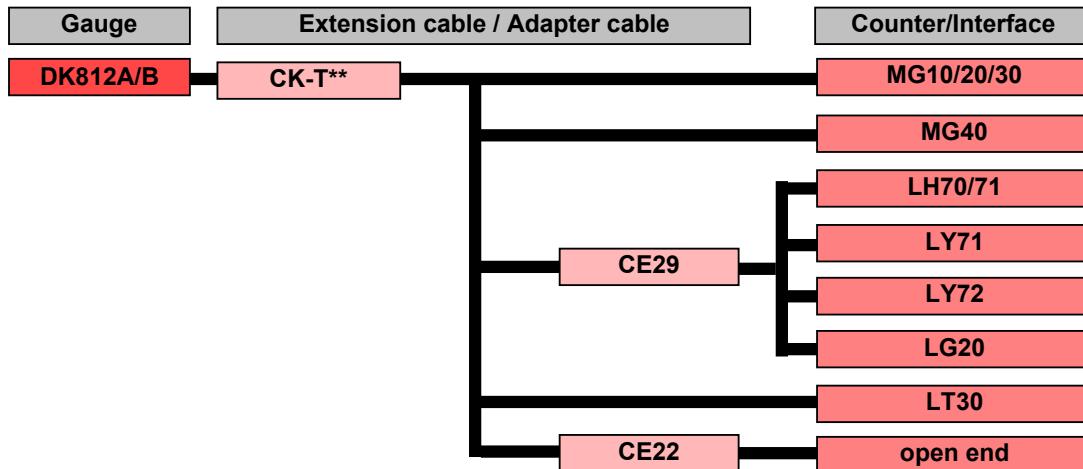
DK812AFR/DK812AFR5/DK812BFR/DK812BFR5



DK812AFLR/DK812AFLR5/DK812BFLR/DK812BFLR5



DK812AVR/DK812AVR5/DK812BVR/DK812BVR5



Resolution: 0,5µm Accuracy: 1,5µm p-p Max response speed 250m/min Measuring length: 12mm

Product code	Product	Model	SRP
97928471	DK812AR5	Straight	
97928472	DK812ALR5	Right angel	
97928473	DK812AFR5	Flange / Straight	
97928474	DK812AFLR5	Flange / Right angle	
97928475	DK812AVR5	Pneumatic push / Right angel	

Resolution: 0,5µm Accuracy: 1,5µm p-p Max response speed 100m/min Measuring length: 12mm

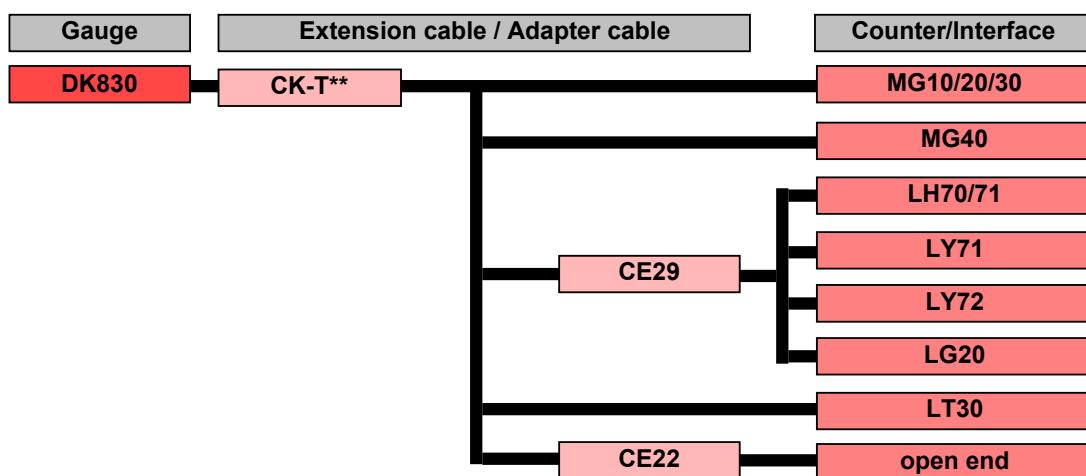
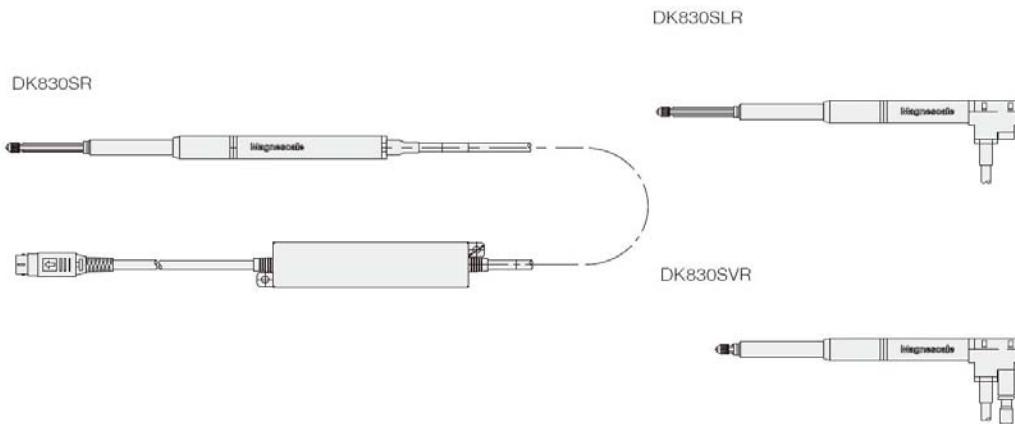
Product code	Product	Model	SRP
97928499	DK812BR5	Straight	
97928500	DK812BLR5	Right angel	
97928501	DK812BFR5	Flange / Straight	
97928502	DK812BFLR5	Flange / Right angle	
97928503	DK812BVR5	Pneumatic push / Right angel	

Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 80m/min Measuring length: 12mm

Product code	Product	Model	SRP
97928466	DK812AR	Straight	
97928467	DK812ALR	Right angel	
97928468	DK812AFR	Flange / Straight	
97928469	DK812AFLR	Flange / Right angle	
97928470	DK812AVR	Pneumatic push / Right angel	

Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 42m/min Measuring length: 12mm

Product code	Product	Model	SRP
97928494	DK812BR	Straight	
97928495	DK812BLR	Right angel	
97928496	DK812BFR	Flange / Straight	
97928497	DK812BFLR	Flange / Right angle	
97928498	DK812BVR	Pneumatic push / Right angel	



Resolution: 0,1µm, Accuracy: 1,3µm/1,7µm p-p, Max response speed 80m/min, Phase difference: 50ns

Product code	Product	Model	SRP
97929744	DK830SR	Straight	
97929745	DK830SLR	Right angel	
97929746	DK830SVR	Pneumatic push / Right angel	

Resolution: 0,1µm, Accuracy: 1,3µm/1,7µm p-p, Max response speed 100m/min, Phase difference: 100ns

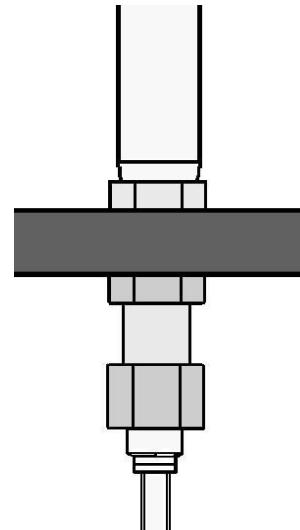
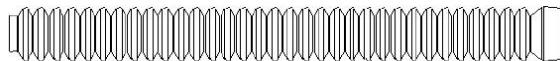
Product code	Product	Model	SRP
97951256	DK830SRB	Straight	
97951252	DK830SLRB	Right angel	
97951258	DK830SVRB	Pneumatic push / Right angel	

Resolution: 0,5µm, Accuracy: 1,3µm/1,7µm p-p, Max response speed 100m/min, Phase difference: 100ns

Product code	Product	Model	SRP
97951255	DK830SRB05	Straight	
97951253	DK830SLRB05	Right angel	
97951259	DK830SVRB05	Pneumatic push / Right angel	

Resolution: 1µm, Accuracy: 1,3µm/1,7µm p-p, Max response speed 200m/min, Phase difference: 100ns

Product code	Product	Model	SRP
97951257	DK830SRB10	Straight	
97951254	DK830SLRB10	Right angel	
97951260	DK830SVRB10	Pneumatic push / Right angel	

Bellows

Flange for DK830S

Option for DK830S			SRP
Product code	Product	Model	
97929747	DZ830BL	Bellow set for DK830SLR (to reach IP67)	
97929748	DZ830BV	Bellow set for DK830SVR (to reach IP67)	
97929749	DZ830F	Flange adapter for DK830S	

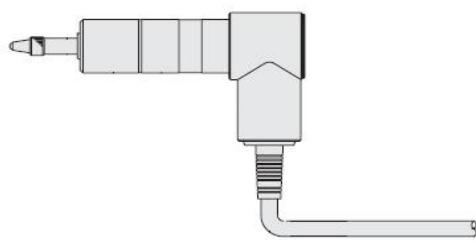
DK830SR□□
DK830SLR□□
DK830SVR□□

Pulse width	Symbol	Resolution	Symbol
50ns(Standard)	Blank	0.1μm(Standard)	Blank
100ns	B	0.5μm	05
300ns	C	1μm	10
500ns	D		

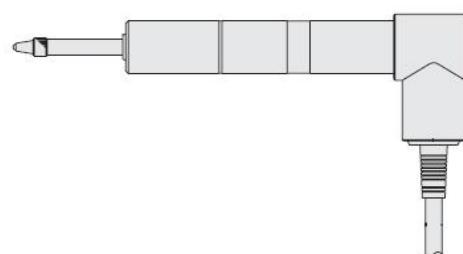
※Combination described below can be ordered.

		Max. response speed(m/min)			
A/B output signal frequency		5.0MHz	2.5MHz	0.8MHz	0.5MHz
Min. phase difference of A/B signal		50ns	100ns	300ns	500ns
Resolution	0.1μm	80(Standard)	42	14	8.4
	0.5μm		100	33	20
	1μm		200	66	40

DK10PLR5



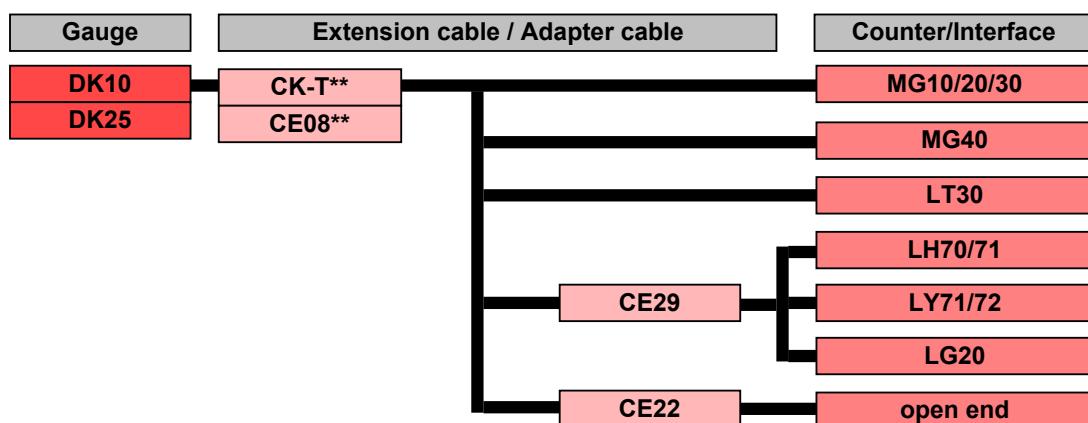
DK25NLR5/PLR5



DK10NR5/PR5



DK25NR5/PR5



Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 250m/min Measuring length: 10mm

Product code	Product	Model	SRP
97928682	DK10PR5	Straight / Protected type	
97928683	DK10NR5	Straight	
97928684	DK10PLR5	Right angel / Protected type	

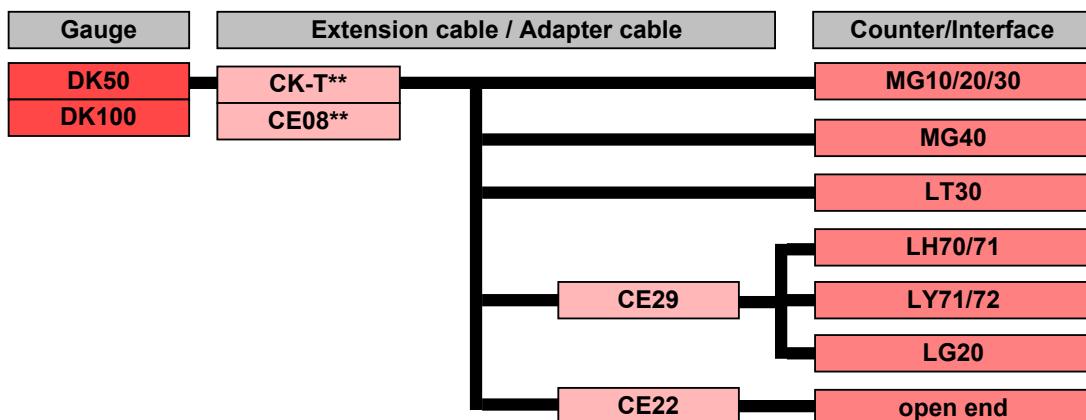
Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 250m/min Measuring length: 25mm

Product code	Product	Model	SRP
97928685	DK25PR5	Straight / Protected type	
97928686	DK25NR5	Straight	
97928687	DK25PLR5	Right angel / Protected type	
97928688	DK25NLR5	Right angel	

DK50NR5/PR5



DK100NR5/PR5



Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 250m/min Measuring length: 50mm

Product code	Product	Model	SRP
97928689	DK50PR5	Straight / Protected type	
97928690	DK50NR5	Straight	

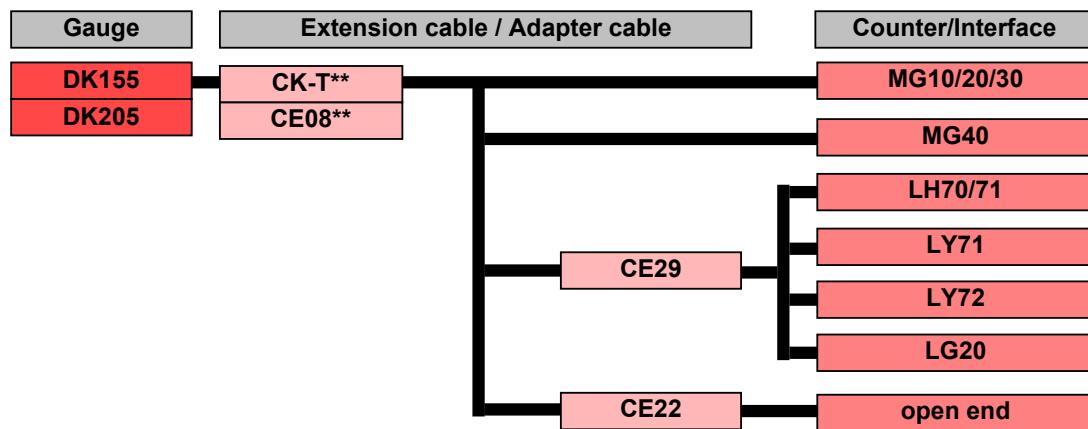
Resolution: 0,5µm Accuracy: 4µm p-p Max response speed 250m/min Measuring length: 100mm

Product code	Product	Model	SRP
97928691	DK100PR5	Straight / Protected type	
97928692	DK100NR5	Straight	

DK155PR5



DK205PR5

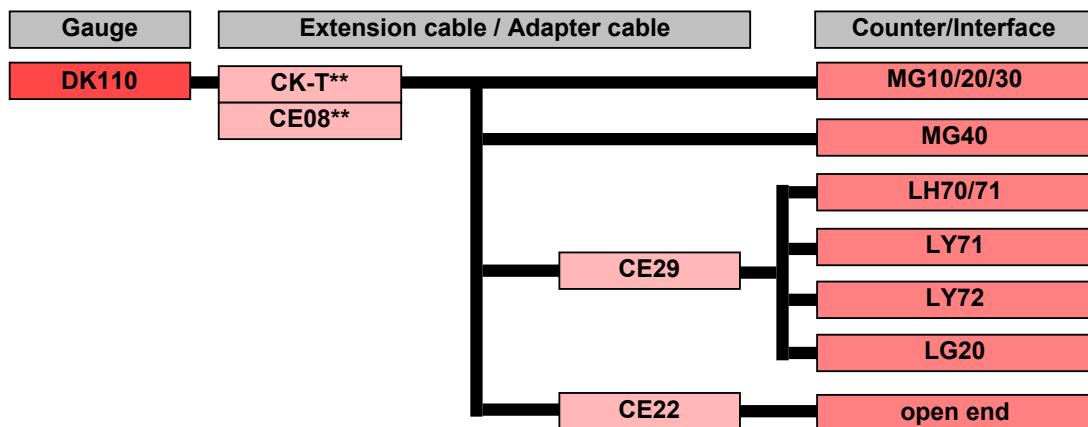
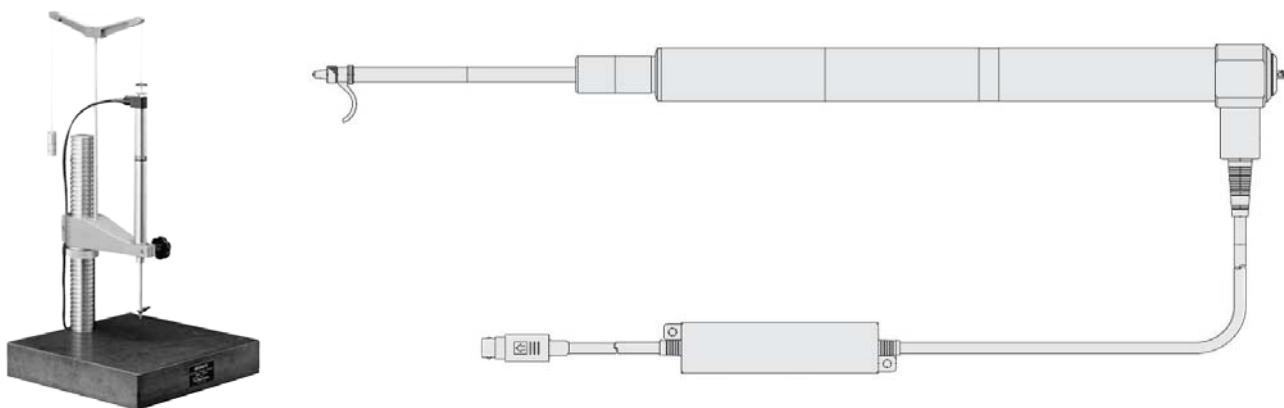


Resolution: 0,5µm Accuracy: 5µm p-p Max response speed 250m/min Measuring length: 155mm

Product code	Product	Model	SRP
97928694	DK155PR5	Straight / Protected type / gravity driven	

Resolution: 0,5µm Accuracy: 6µm p-p Max response speed 250m/min Measuring length: 205mm

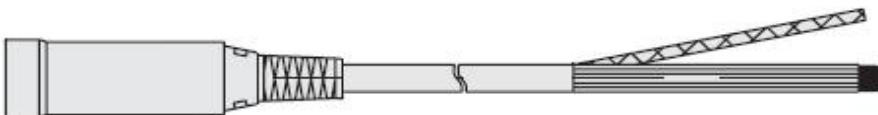
Product code	Product	Model	SRP
97928695	DK205PR5	Straight / Protected type / gravity driven	



Resolution: 0,5µm Accuracy: 4µm p-p Max response speed 250m/min Measuring length: 110mm

Product code	Product	Model	SRP
97928693	DK110NLR5	Straight / for controllable measuring force	

97922011	DZ531	Digital gauging stand for DG/DK110	
97922014	DZ581	Measuring force balancer for DG/DK110	

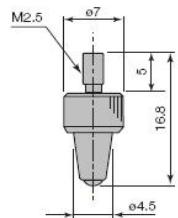
CE08-****CE22-****

Product code	Product	Model	SRP
97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	
97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)	
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	
97928116	CE22-01	Extension cable with open end (1m); High-flex cable	
97928117	CE22-03	Extension cable with open end (3m); High-flex cable	
97928118	CE22-05	Extension cable with open end (5m); High-flex cable	
97928119	CE22-10	Extension cable with open end (10m); High-flex cable	
97928696	CE29-003	Adapter cable (0.3m) to connect to LH70/71 LY71/72 LG20	
97928697	CE29-01	Adapter cable (1m) to connect to LH70/71 LY71/72 LG20	
97928698	CE29-03	Adapter cable (3m) to connect to LH70/71 LY71/72 LG20	
97928699	CE29-05	Adapter cable (5m) to connect to LH70/71 LY71/72 LG20	
97928700	CE29-10	Adapter cable (10m) to connect to LH70/71 LY71/72 LG20	

**Recommended for the DK802 / DK812 Series
if extension cable longer than 3m is needed**

High-flex cable Thick cable type (Low impedance, robust)			
Product code	Product	Model	SRP
97931990	CE26-01	Extension cable with open end (1m)	
97931991	CE26-03	Extension cable with open end (3m)	
97931992	CE26-05	Extension cable with open end (5m)	
97931993	CE26-10	Extension cable with open end (10m)	
97931994	CE27-01	Extension cable (1m)	
97931995	CE27-03	Extension cable (3m)	
97931996	CE27-05	Extension cable (5m)	
97931997	CE27-10	Extension cable (10m)	

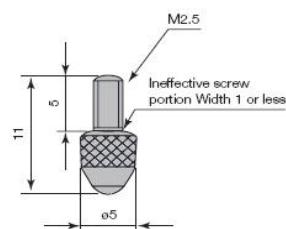
DZ-122 Feeler (for DK Series, DG10B and DG50B)



- Contact point: ø 2.5 mm/0.098" carbide ball tip (mounting screw: M2.5 x 0.45)

Unit : mm

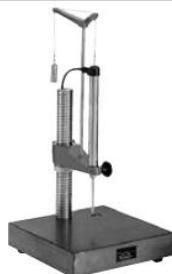
DZ-123 Feeler (for DK Series, DG805BL/810B/810BL)



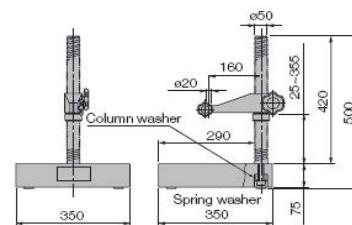
- Contact point: ø 3 mm/0.118" carbide ball tip (mounting screw: M2.5 x 0.4)

Unit : mm

DZ-531 Digital gauging stand (for DK110, DG110B)

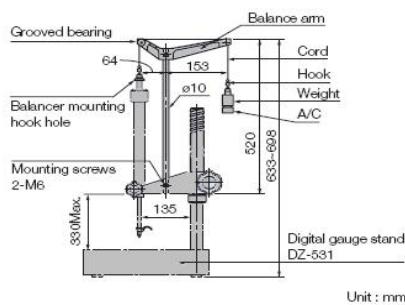


- Surface plate material: gabbro
- Surface plate flatness: 3 µm
- Surface plate size: 350mm (13.78") x 350mm (13.78")
- Maximum workpiece height: approx. 330mm (12.99")
- Gauge mounting hole: ø 20mm (0.79")
- Mass: 38kg(83.8 lbs)



Unit : mm

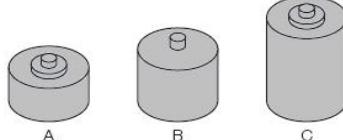
DZ-581 Measuring force balancer (for DK110, DG110B)



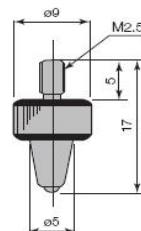
Unit : mm

Weight

- No weight: 1.55±0.15N(155±15gf)
- B: 1.0±0.15N(100±15gf)
- B+A: 0.7±0.15N(70±15gf)
- B+C: 0.3±0.15N(30±15gf)



DZ-121 Feeler (for DK100, DG100BP/BN)



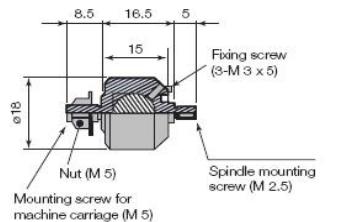
Unit : mm

- Contact point: ø 2.5 mm/0.098" carbide ball tip (mounting screw: M2.5 x 0.45)

Other accessories

- CE08Extension cable : CE08-01 (1m), 03 (3m), 05 (5m), 10 (10m), 15 (15m)
- CE22Extension cable (Ahead in pieces) : CE22-01 (1m), 03 (3m), 05 (5m), 10 (10m)
- CK-TExtension cable (Winding-proof) : CK-T12 (1m), T13(3m), T14(5m), T15(10m)

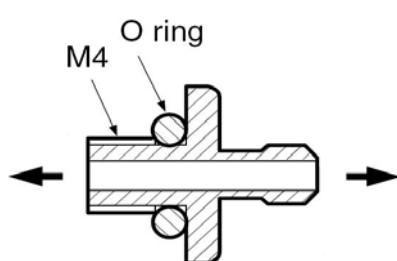
DZ-191 Coupling



Unit : mm

Product code	Product	Type	SRP
97967101	DZ51	Replay adapter	
97993210	DZ100	Roller feeler	
97993212	DZ-122	Feeler	
97993213	DZ-123	Feeler	
97922022	DZ-161	Lift lever	
97922041	DZ174-010	Air lifter	
97922042	DZ174-025	Air lifter	
97922043	DZ174-050	Air lifter	
97922020	DZ181	Magnetic contact point feeler	
97922013	DZ191	Coupling	
97922010	DZ501	Gauge stand with 20mm stem and long measuring lengths	
97993254	DZ811	Bushing to use gauge with 8mm stem with DZ501 stand	
97922025	DZ521	Gauge stand with 8mm stem and short measuring lengths	
97922011	DZ531	Digital gauging stand for DG/DK110	
97922014	DZ581	Measuring force balancer for DG/DK110	
97993253	DZ801	Air lifter	
97922012	DZ5100	Feeler set	

To be order from GeBoTech



Product code	Product	Type	SRP
000931714	Fitting-D01 Set	Airlifter Fitting for Vacuum use (DK802/805/812) only right angle type	

DK Series operating cautions

In operating the feeler with a vacuum pump, use such an air-pass system as shown in Fig. 1 to enable air driving. The optimum vacuum rate is 0.04 to 0.067 MPa. Further, put such an orifice as shown in Fig. 2 on a tube from the air lifter connector to control the air suction and discharge speed. The feeler is lifted at the air discharge to the vacuum pump.

Fig.1 Air-pass System

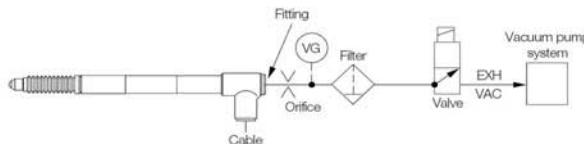
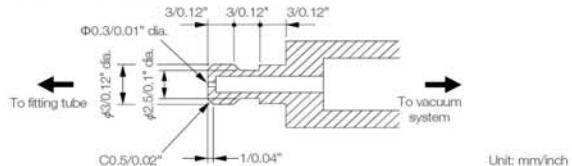
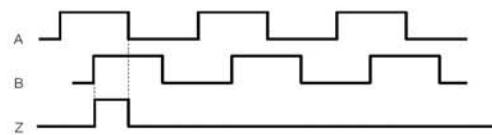


Fig.2 Dimensions of Orifice



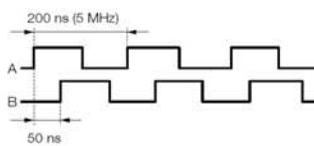
DK Series measuring unit output signals

The signals output from this measuring unit are A/B quadrature signal, Z signal in the form of voltage-differential line driver output compliant with EIA-422.

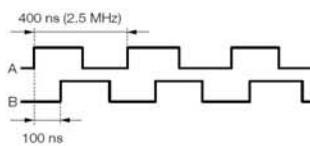
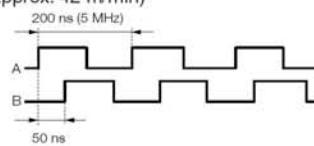


The reference point is the synchronized reference point that is at Hi impedance when the phase A and phase B are at the Hi level.

DK800A output signals at maximum response speed (at approx. 80 m/min)



DK800B output signals at maximum response speed (at approx. 42 m/min)

DK10/25/100/155/205/110
Output signals at maximum response speed (at approx. 42 m/min)

Before using, check that the minimum input phase difference of the control device connected to this measuring unit or the counter is smaller than 50 ns for the DK800A (A signal cycle: 200 ns, 5 MHz) or smaller than 100 ns for the DK800B (A cycle: 400 ns, 2.5 MHz).

*The minimum phase difference can be modified under special specifications.

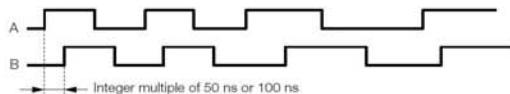
Before using, check that the minimum input phase difference of the control device connected to this measuring unit or the counter is smaller than 50 ns for-DK 10~110 series (A signal cycle: 200 ns, 5 MHz).

*The minimum phase difference can be modified under special specifications.

Output Signal Phase Difference

The travel amount of the measuring unit is detected every 50 ns for the DK800A and every 100 ns for the DK800B, and the phase difference proportional to the amount traveled is output. The phase difference changes in integer multiples of 50 ns or 100 ns. Also, the minimum phase difference for the A and B is 50 ns for the DK800A and 100 ns for the DK800B.

DK802A/B-812A/B

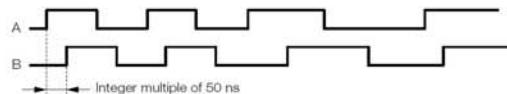


In maximum standard specifications, the minimum phase difference is fixed at 50 ns for the DK800A and 100 ns for the DK800B, but the minimum phase differences in the table below are available as special specifications.

A/B minimum phase difference	A signal cycle	Counter allowable frequency	Maximum response speed Resolution 0.1 μm	Remarks
			Resolution 0.5 μm	
50 ns	200 ns	5 MHz	80 m/min	DK800A standard product
100 ns	400 ns	2.5 MHz	42 m/min	DK800B standard product
300 ns	1.2 μs	833 kHz	14 m/min	Special specifications
500 ns	2 μs	500 kHz	8.4 m/min	Special specifications

The travel amount of the measuring unit is detected every 50 ns, and the phase difference proportional to the amount traveled is output. The phase difference changes in integer multiples of 50 ns. Also, the minimum phase difference for the A and B is 50 ns.

DK10/25/100/155/205/110

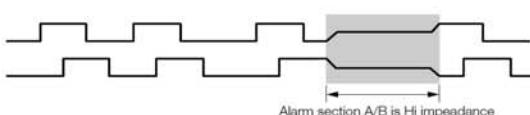


In the standard specifications, the minimum phase difference is fixed at 50 ns, but the minimum phase differences in the table below are available as special specifications.

A/B minimum phase difference	A signal cycle	Counter allowable frequency	Maximum response speed Resolution 0.5 μm	Remarks
50 ns	200 ns	5 MHz	250 m/min	Standard product
100 ns	400 ns	2.5 MHz	100 m/min	Special specifications
300 ns	1.2 μs	833 kHz	33 m/min	Special specifications
500 ns	2 μs	500 kHz	20 m/min	Special specifications

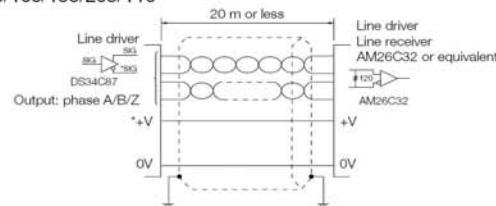
Output Signal Alarm

If the response speed is exceeded, the A/B output from this measuring unit changes to Hi impedance for about 400 ms to serve as an alarm.



Receiver

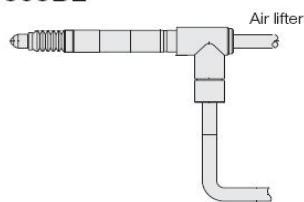
DK10/25/100/155/205/110



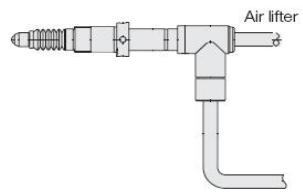
(*If extending the cable, the supply voltage is +5 V±5%.)

(*Use the CE22 series extension cables for bare wires (optional accessories).)

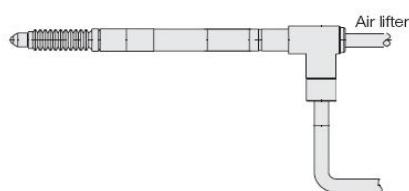
DG805BL



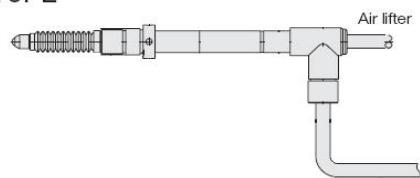
DG805FL



DG810BL



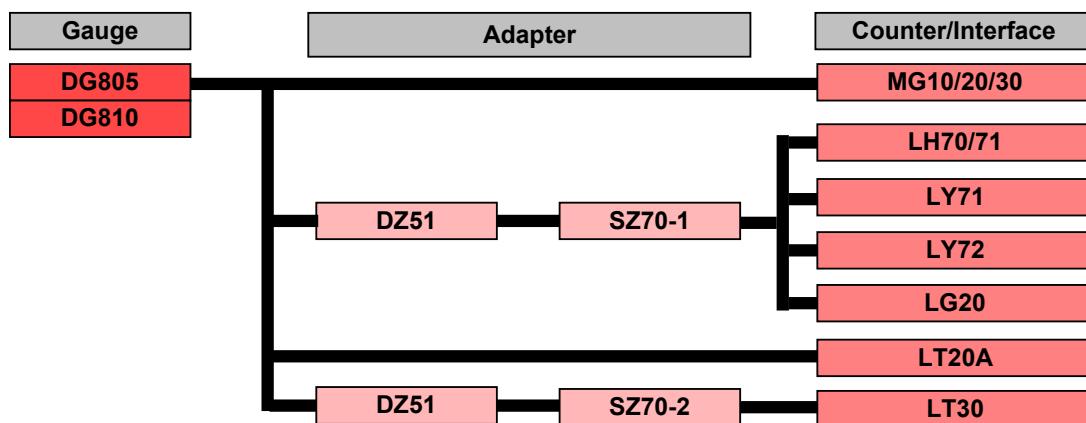
DG810FL



DG810B



DG810F



Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 60m/min Measuring length: 5,2mm

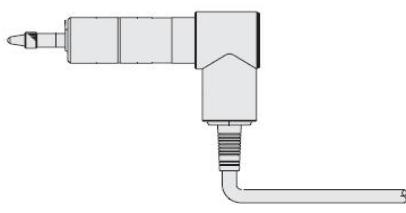
Product code	Product	Model	SRP
97967801	DG805BL	Angle type	
97970901	DG805FL	Flange / Angle type	

Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 60m/min Measuring length: 10mm

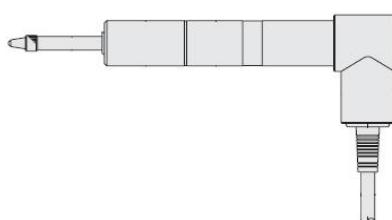
Product code	Product	Model	
97967811	DG810B	Straight type	
97967821	DG810BL	Angle type	
97971001	DG810F	Flange / Straight type	
97971101	DG810FL	Flange / Angle type	

97993253	DZ801	Air Lifter (DG805BL/810BL)	
97967101	DZ51	Adaptor for Gauge	
97928115	SZ70-1	Adaptor for LH70/71 LY71/72 LD20	
97928726	SZ70-2	Adaptor for LT30	

DG10BS



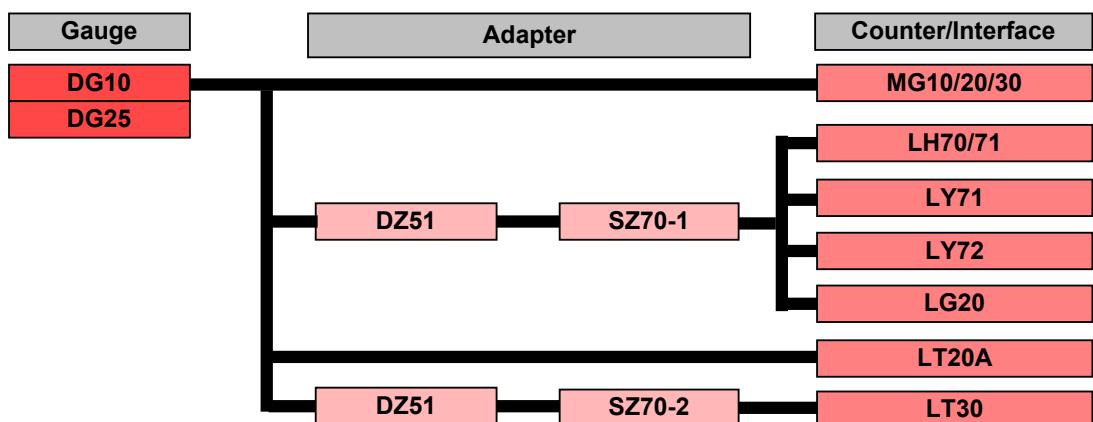
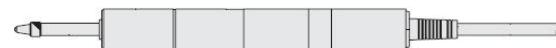
DG25BS/BL



DG10BN/BP



DG25BN/BP



Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 60m/min Measuring length: 10mm

Product code	Product	Model	SRP
97967831	DG10BN	Straight	
97967841	DG10BP	Straight / Protected type	
97967851	DG10BS	Right angel / Protected type	

Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 60m/min Measuring length: 25mm

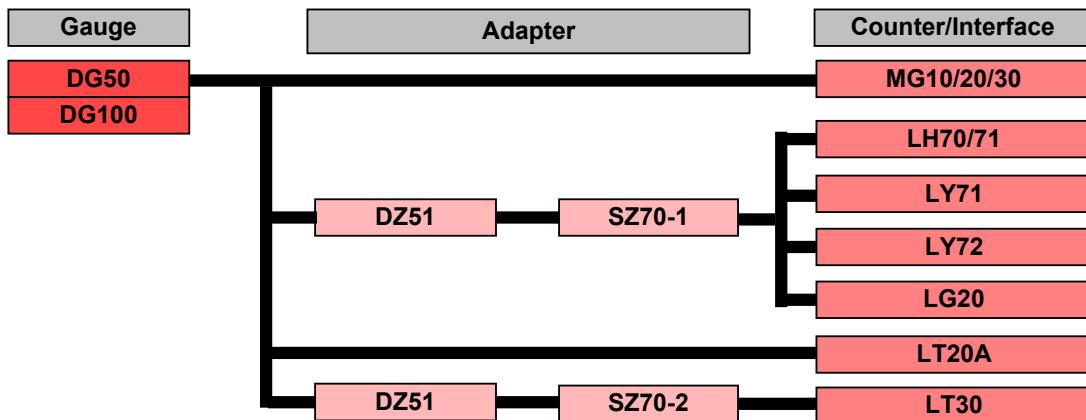
Product code	Product	Model	SRP
97967861	DG25BN	Straight	
97967871	DG25BP	Straight / Protected type	
97967881	DG25BS	Right angel / Protected type	
97967891	DG25BL	Right angel	

97967101	DZ51	Adaptor for Gauge	SRP
97928115	SZ70-1	Adaptor for LH70/71 LY71/72 LD20	SRP
97928726	SZ70-2	Adaptor for LT30	SRP

DG50BN/BP



DG100BN/BP



Resolution: 0,5µm Accuracy: 2µm p-p Max response speed 60m/min Measuring length: 50mm

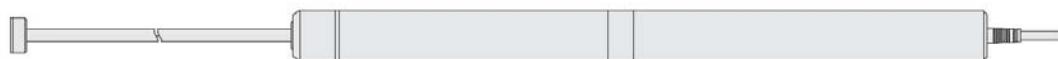
Product code	Product	Model	SRP
97967901	DG50BN	Straight	
97967911	DG50BP	Straight / Protected type	

Resolution: 0,5µm Accuracy: 4µm p-p Max response speed 60m/min Measuring length: 100mm

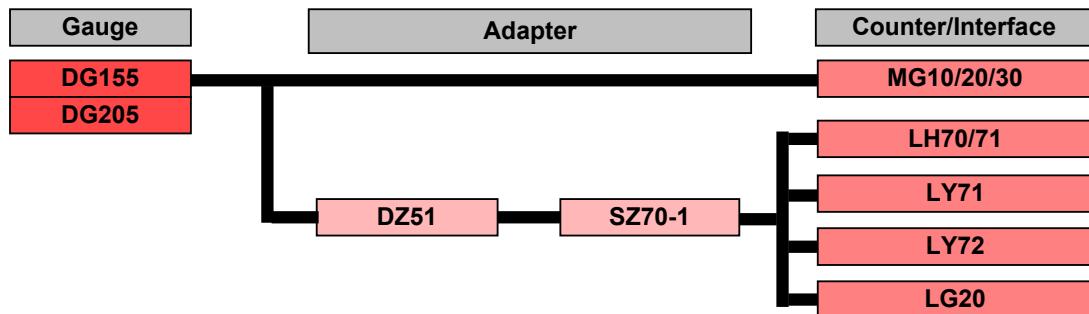
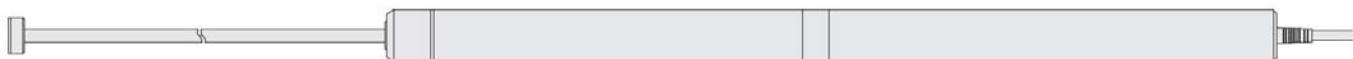
Product code	Product	Model	
97967921	DG100BN	Straight	
97967931	DG100BP	Straight / Protected type	

97967101	DZ51	Adaptor for Gauge	
97928115	SZ70-1	Adaptor for LH70/71 LY71/72 LD20	
97928726	SZ70-2	Adaptor for LT30	

DG155BP



DG205BP



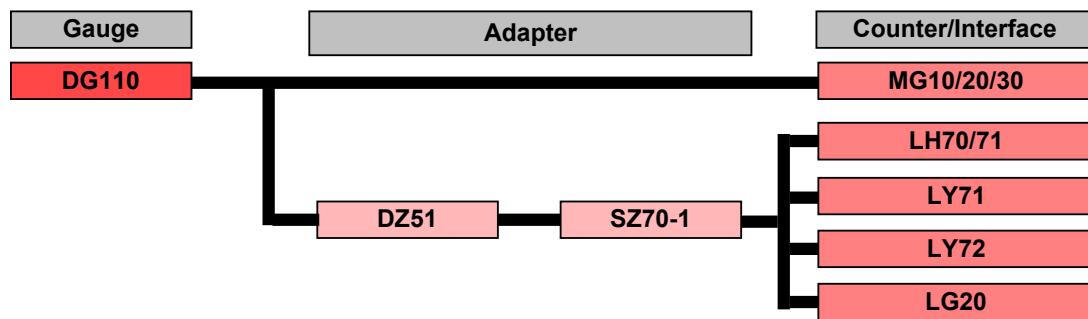
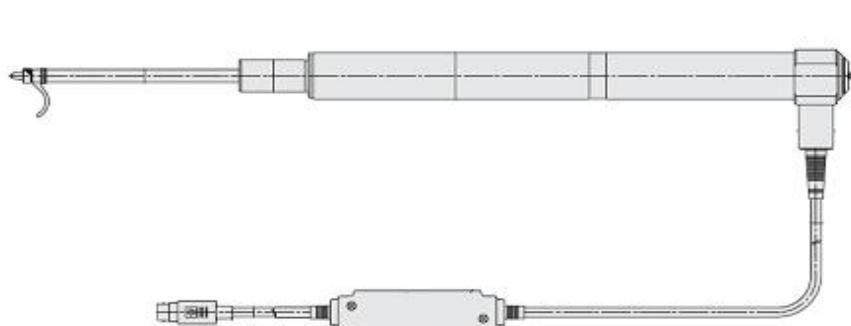
Resolution: 0,5µm Accuracy: 5µm p-p Max response speed 60m/min Measuring length: 155mm

Product code	Product	Model	SRP
97967951	DG155BP	Straight / Protected type / Gravity driven	

Resolution: 0,5µm Accuracy: 6µm p-p Max response speed 60m/min Measuring length: 205mm

Product code	Product	Model	SRP
97967961	DG205BP	Straight / Protected type / Gravity driven	

97967101	DZ51	Adaptor for Gauge	SRP
97928115	SZ70-1	Adaptor for LH70/71 LY71/72 LD20	SRP



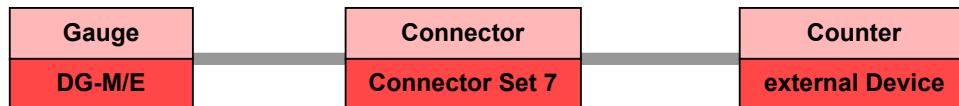
Resolution: 0,5µm Accuracy: 4µm p-p Max response speed 60m/min Measuring length: 110mm

Product code	Product	Model	SRP
97967941	DG110B	Straight	

97967101	DZ51	Adaptor for Gauge	
97922011	DZ531	Gauge stand (DG/DK110)	
97922014	DZ581	Measuring force balancer (DG/DK110)	
97928115	SZ70-1	Adaptor for LH70/71 LY71/72 LD20	



A/B quadrature output type



DG-M Series with TTL (RS422) Output signal (5V DC +/-5%)

Product code	Product	Model	SRP
97977529	DG10BNM	Straight	
97977530	DG10BPM	Straight / Protected type	
97977531	DG10BSM	Right angel / Protected type	
97977532	DG25BNM	Straight	
97977533	DG25BPM	Straight / Protected type	
97977534	DG25BLM	Right angel	
97977535	DG25BSM	Right angel / Protected type	
97977536	DG50BNM	Straight	
97977537	DG50BPM	Straight / Protected type	
97977538	DG100BNM	Straight	
97977539	DG100BPM	Straight / Protected type	
97977540	DG110BM	Straight	
97977541	DG155BPM	Straight / Protected type / gravity driven	
97977542	DG205BPM	Straight / Protected type / gravity driven	
97977523	DG805BLM	Right angel	
97977524	DG810BM	Straight	
97977525	DG810BLM	Right angel	
97977526	DG805FLM	Flange / Right angle	
97977527	DG810FM	Flange / Straight	
97977528	DG810FLM	Flange / Right angle	

DG-E Series with TTL (RS422) Output signal (11V-28V DC)

Product code	Product	Model	SRP
97977549	DG10BNE	Straight	
97977550	DG10BPE	Straight / Protected type	
97977551	DG10BSE	Right angel / Protected type	
97977552	DG25BNE	Straight	
97977553	DG25BPE	Straight / Protected type	
97977554	DG25BLE	Right angel	
97977555	DG25BSE	Right angel / Protected type	
97977556	DG50BNE	Straight	
97977557	DG50BPE	Straight / Protected type	
97977558	DG100BNE	Straight	
97977559	DG100BPE	Straight / Protected type	
97977560	DG110BE	Straight	
97977561	DG155BPE	Straight / Protected type / gravity driven	
97977562	DG205BPE	Straight / Protected type / gravity driven	
97977543	DG805BLE	Right angel	
97977544	DG810BE	Straight	
97977545	DG810BLE	Right angel	
97977546	DG805FLE	Flange / Right angle	
97977547	DG810FE	Flange / Straight	
97977548	DG810FLE	Flange / Right angle	

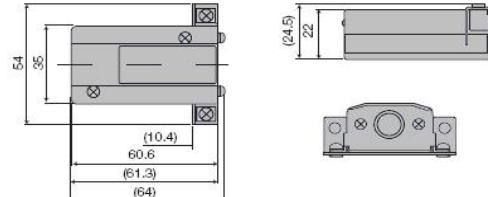
Local purchase part from Yamazen

000932015 Set-7

Connector Set 7 for RS422 Gauges (DG-M/E Series)

DZ51 (Relay adapter) For connections of DG-B, DL-BR, DL-B and DT12/32N/P* to LG, LH and LY displays

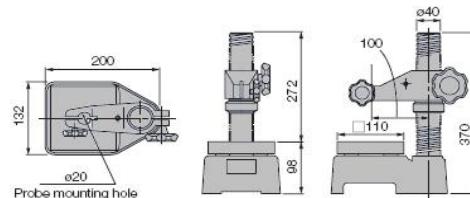
To connect the DT12/32N/P, use the DZ51 in combination with the MT10 detector.



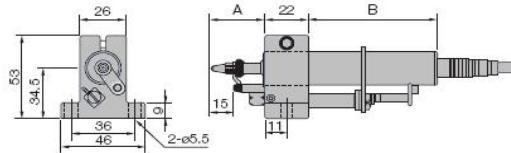
Unit : mm

DZ-501 Digital gauging stand (for DG10B to DG100B, DE-30BR)

- Surface plate material: alumina ceramic
- Surface plate flatness: 2 μm
- Surface plate size: 110 mm (4.33") x 110 mm (4.33")
- Maximum workpiece height: approx. 190 mm(7.48")
- Gauge mounting hole: ø 20mm (0.79")
- Mass: 13kg (28.67 lbs)



Unit : mm

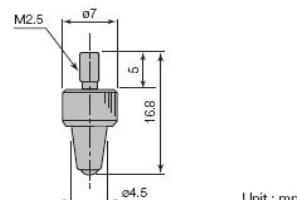
DZ174-010/025/050 Air lifter (for DG10B to DG50B)

Measuring unit	A	B	Measuring unit	A	B
DG10BP/BN	32.5	75.5	DG25BS	47.5	98.5
DG10BS	32.5	56	DG25BL	47.5	98.5
DG25BP/BN	47.5	118	DG50BP/BN	72	200

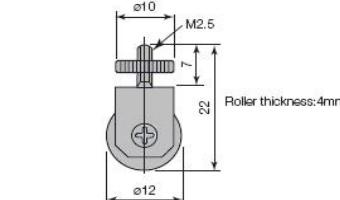
Unit : mm

DZ-122 Feeler (for DG10B to DG50B)

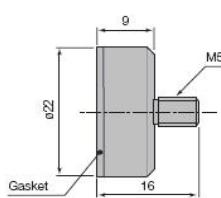
- Contact point: ø 2.5 mm/0.098" carbide ball tip (mounting screw: M2.5 x 0.45)



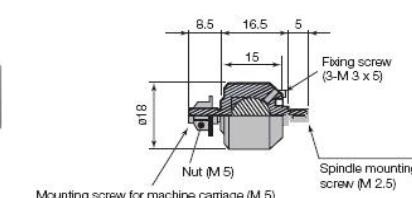
Unit : mm



Unit : mm

DZ-100 Roller feeler (for DT Series,DG-B Series: except for DG155BP/205BP)**DZ-181 Magnetic contact point feeler (for DG155BP/205BP)**

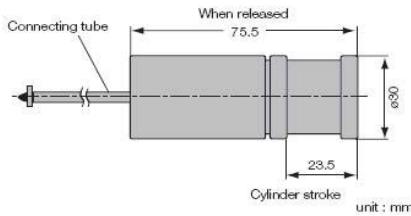
Unit : mm



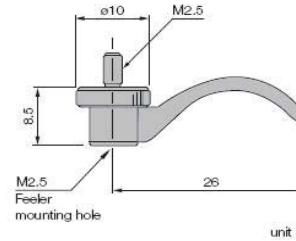
Unit : mm

DZ-191 Coupling

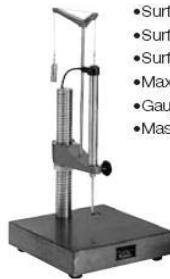
DZ-801 Air lifter (for DG805BL/810BL)



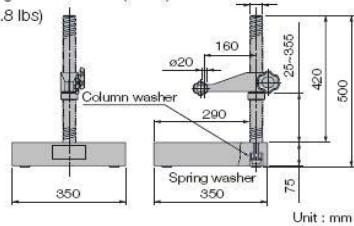
DZ-161 Lift lever (for DG-B except DG155BP/205BP; standard accessory for the DG110B)



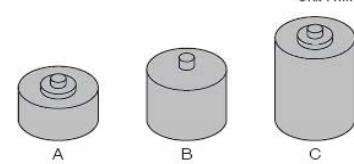
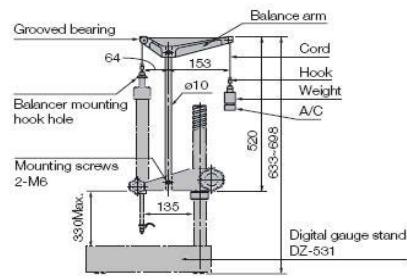
DZ-531 Digital gauging stand (for DK110, DG110B)



- Surface plate material: gabbro
- Surface plate flatness: 3 μm
- Surface plate size: 350mm (13.78") x 350mm (13.78")
- Maximum workpiece height: approx. 330mm (12.99")
- Gauge mounting hole: Φ 20mm (0.79")
- Mass: 38kg(83.8 lbs)



DZ-581 Measuring force balancer (for DK110, DG110B)

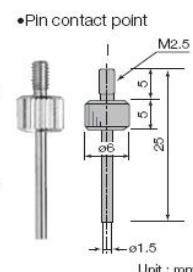
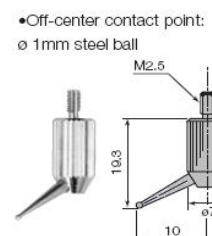
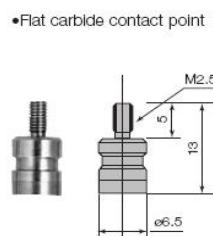
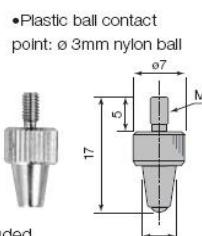


- Weight**
- No weight: 1.55±0.15N(155±15gf)
 - B: 1.0±0.15N(100±15gf)
 - B+A: 0.7±0.15N(70±15gf)
 - B+C: 0.3±0.15N(30±15gf)

DZ-5100 Feeler set



Note: The four contactors shown at right are included.



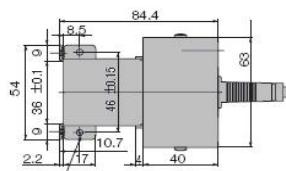
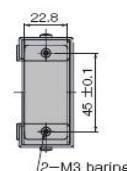
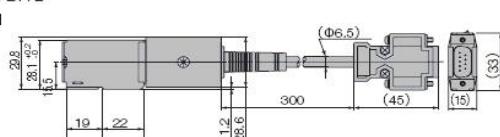
SZ70-1 Adapter

SZ70-1 is required for connecting the following scale units and counters:

Gauge unit : DE-BR Series, DG-B Series

Counter : LH71A/72, LY71 and LY72

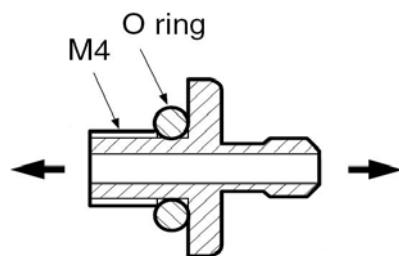
* Adapter DZ51 is also required



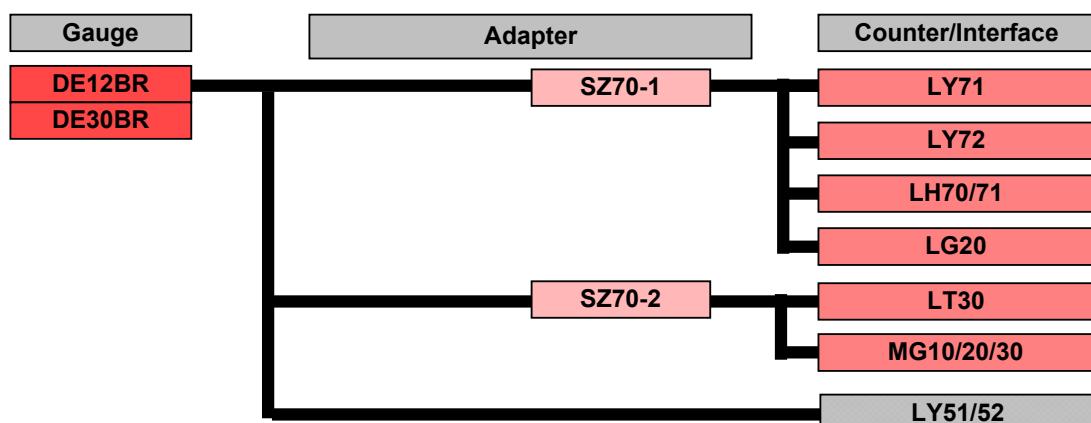
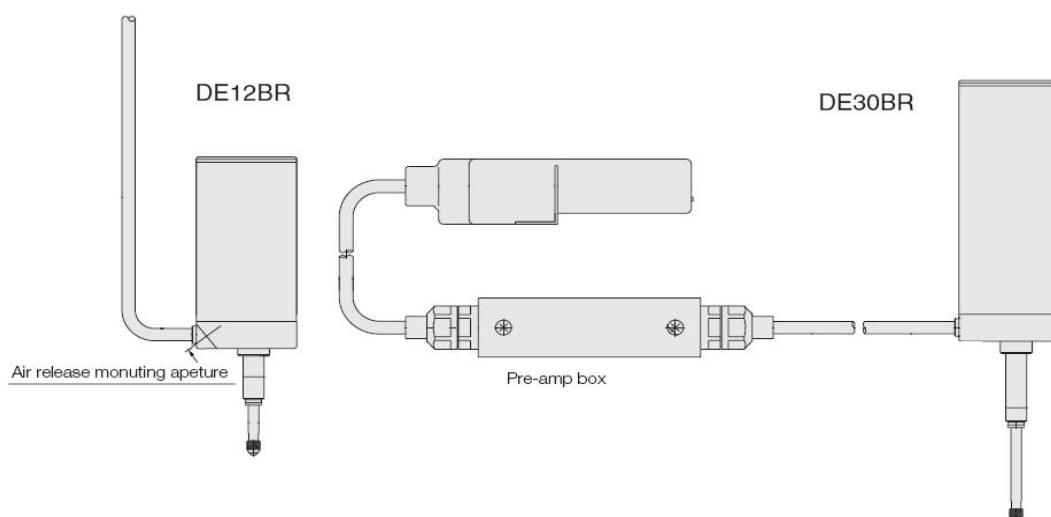
Unit : mm

Product code	Product	Type	SRP
97967101	DZ51	Replay adapter	
97993210	DZ100	Roller feeler	
97993212	DZ-122	Feeler	
97922022	DZ-161	Lift lever	
97922041	DZ174-010	Air lifter	
97922042	DZ174-025	Air lifter	
97922043	DZ174-050	Air lifter	
97922020	DZ181	Magnetic contact point feeler	
97922013	DZ191	Coupling	
97922010	DZ501	Gauge stand with 20mm stem and long measuring lengths	
97993254	DZ811	Bushing to use gauge with 8mm stem with DZ501 stand	
97922025	DZ521	Gauge stand with 8mm stem and short measuring lengths	
97922011	DZ531	Digital gauging stand for DG/DK110	
97922014	DZ581	Measuring force balancer for DG/DK110	
97993253	DZ801	Air lifter	
97922012	DZ5100	Feeler set	
97928115	SZ70-1	Adapter	
97928726	SZ70-2	Adaptor for LT30	

To be order from GeBoTech



Product code	Product	Type	SRP
000931714	Fitting-D01 Set	Airlifter Fitting for Vacuum use (DG805/810) only right angle type	

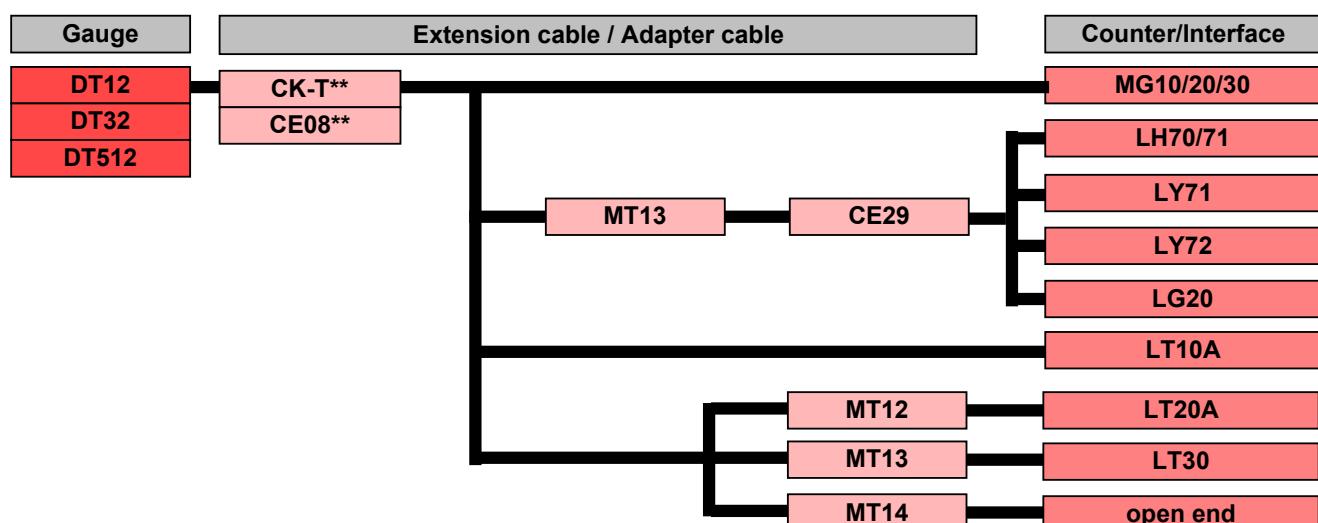
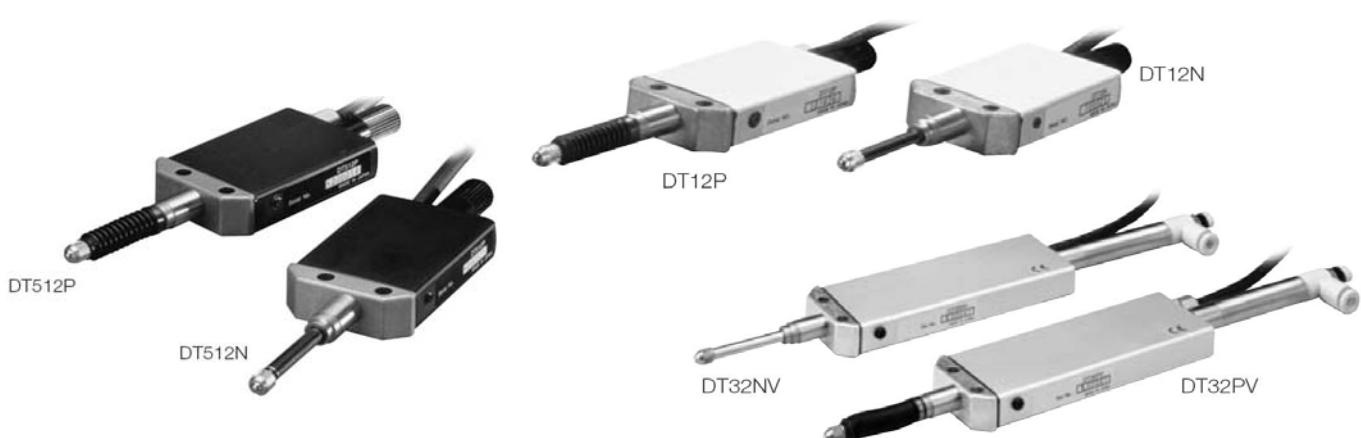


Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 20m/min Measuring length: 12mm

Product code	Product	Model	SRP
97968401	DE12BR	Straight	
97968501	DE30BR	Straight	

Resolution: 0,1µm Accuracy: 1µm p-p Max response speed 20m/min Measuring length: 30mm

Product code	Product	Model	SRP
97922061	DZ302	Bellow set for DE12BR	
97922067	DZ301	Bellow set for DE30BR/DL330BR	
97922028	DZ173	Air release for DE12BR/30BR and U Series	
97928115	SZ70-1	Adaptor	



Resolution: 5µm Accuracy: 10µm p-p Measuring length: 12mm

Product code	Product	Model	SRP
97959101	DT12N	without bellow	
97959201	DT12P	with bellow	

Resolution: 5µm Accuracy: 10µm p-p Measuring length: 32mm

Product code	Product	Model	SRP
97978002	DT32N	without bellow	
97978003	DT32P	with bellow	
97978004	DT32NV	without bellow / push type	
97978005	DT32PV	with bellow / push type	

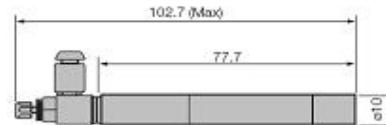
Resolution: 1µm Accuracy: 6µm p-p Measuring length: 12mm

Product code	Product	Model	SRP
97963701	DT512N	without bellow	
97963601	DT512P	with bellow	

DZ176 Air lifter (for DT)

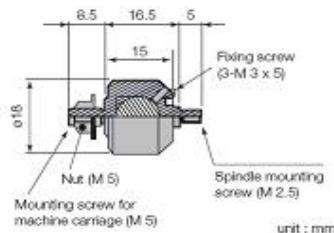


- Measuring range: 0 to 12 mm
- Can be used for DT12/512P/N
- Air pressure: 250 to 700 kPa (25.48 to 69.58 N/cm²)
- Operating temperature: 0 to 50°C
- Storage temperature: -10 to 60°C
- Mass: 41g (incl. speed controller)
- Service life: 5 million times
- Supplied accessories: Mounting jig, speed controller (SMC: AS1211F-M5-04)

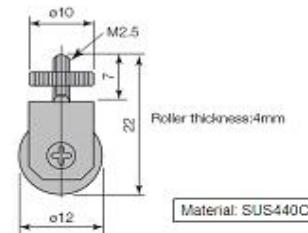


unit : mm

DZ-191 Coupling



DZ-100 Roller feeler (for DT Series,DG-B Series: except for DG155BP/205BP)



Product code	Product	Type	SRP
97993210	DZ100	Roller feeler	
97962401	DT176	Air lifter for DT12/DT512	
97922013	DZ191	Coupling	

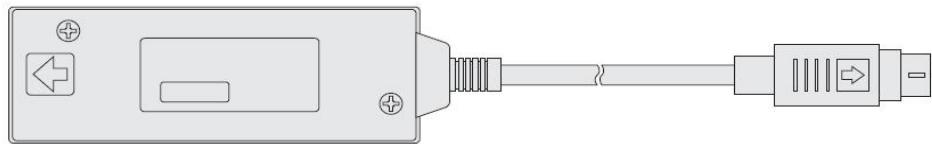
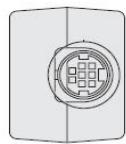
CE08-**
CK-T**



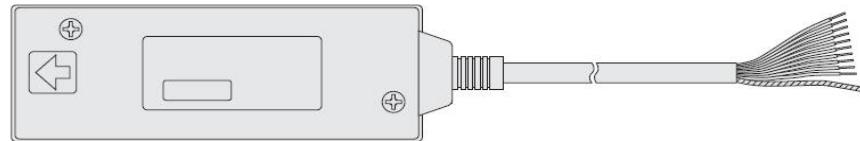
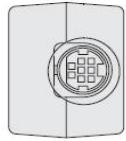
Product code	Product	Model	
97924996	CK-T12	Extension cable 1m (High-flex cable)	
97924997	CK-T13	Extension cable 3m (High-flex cable)	
97924998	CK-T14	Extension cable 5m (High-flex cable)	
97924999	CK-T15	Extension cable 10m (High-flex cable)	
97930000	CK-T16	Extension cable 15m (High-flex cable)	

97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)	
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	

MT12 / MT13



MT14

**Gauge**

DT12

DT32

DT512

Extension cable / Adapter cable

CK-T**

CE08**

MT12

MT13

MT14

Counter/Interface

LT20A

LT30

open end

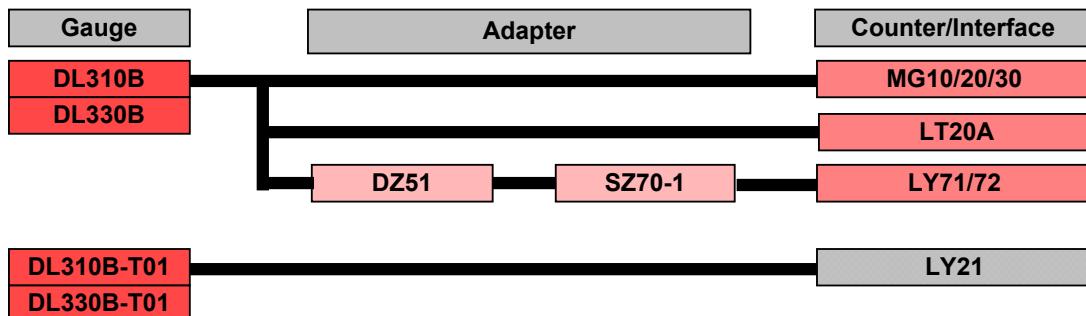
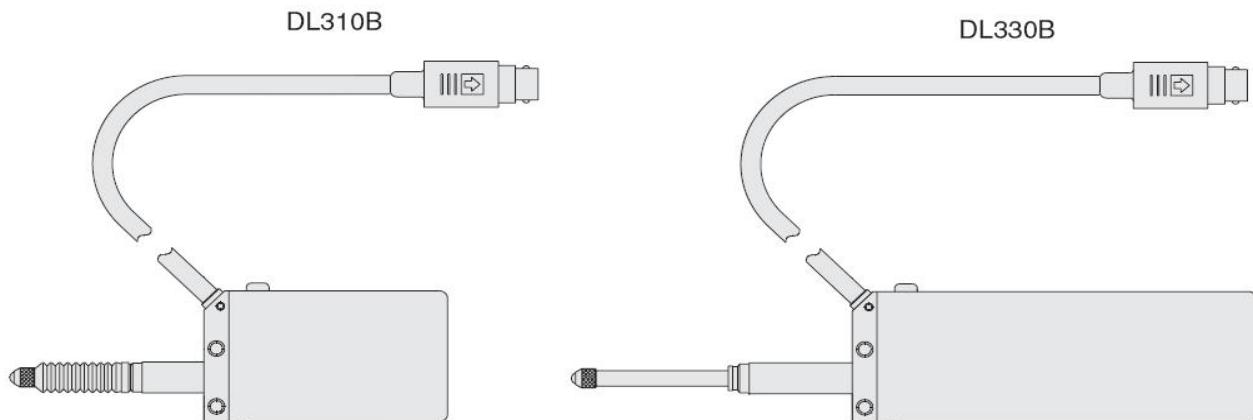
LH70/71

LY71

LY72

LG20

Product code	Product	Type	SRP
97928766	MT12-05	5µm resolution - NPN open collector output	
97928767	MT12-10	10µm resolution - NPN open collector output	
97928768	MT13-01	1µm resolution - A/B phase output	
97928769	MT13-05	5µm resolution - A/B phase output	
97928770	MT13-10	10µm resolution - A/B phase output	
97928771	MT14-01	1µm resolution - TTL (RS422) open end	
97928772	MT14-05	5µm resolution - TTL (RS422) open end	
97928773	MT14-10	10µm resolution - TTL (RS422) open end	



Resolution: 10µm Accuracy: 10µm p-p Max response speed 120m/min Measuring length: 10mm

Product code	Product	Model	SRP
97968001	DL310B	Straight	
97930268	DL310B-T01	DL310B with Sub-HD 15-Pol. to connect to the LY21 direct	

Resolution: 10µm Accuracy: 10µm p-p Max response speed 120m/min Measuring length: 30mm

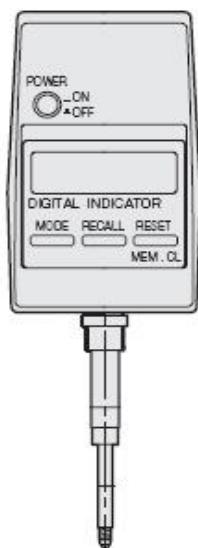
Product code	Product	Model	
97968011	DL330B	Straight	
97930270	DL330B-T01	DL330B with Sub-HD 15-Pol. to connect to the LY21 direct	

Product code	Product	Model	
97967101	DZ51	Adaptor	
97928115	SZ70-1	Adaptor	
97922061	DZ301	Bellow set for DL330B	

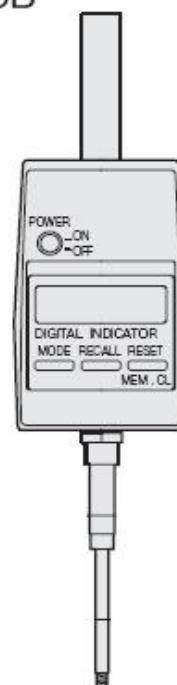
U

U SERIES

U12B



U30B



U60B



Product code	Product	Type	SRP
97900268	U12B-F	Resolution 1µm / Accuracy 2µm / Measuring length 12mm	
97900270	U30B-F	Resolution 1µm / Accuracy 2µm / Measuring length 30mm	
97900272	U60B-F	Resolution 1µm / Accuracy 3µm / Measuring length 60mm	

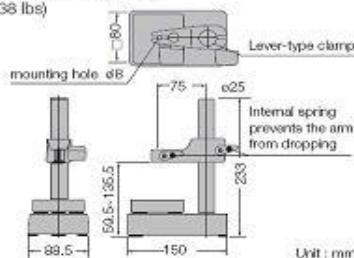
Local purchase part from Yamazen

Product code	Product	Type	SRP
000932595	AC-K02	Power supply for the U-Series	

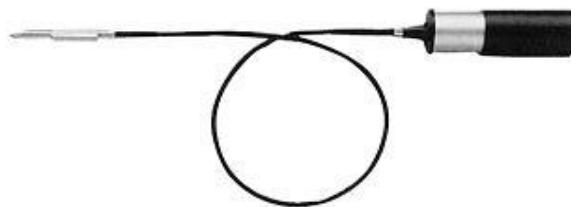
DZ521 Gauging stand (for DG805BL/810B/810BL, U Series, DE12BR)



- Surface plate material: alumina ceramic (dark brown)
- Surface plate flatness: 2 µm
- Surface plate size: 80 mm (3.15") x 80 mm (3.15")
- Maximum workpiece height: approx. 105 mm (4.13")
- Gauge mounting hole: ø 8 mm (0.31")
- Mass: 3.8 kg (8.38 lbs)



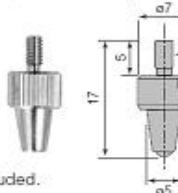
DZ173 Air release (for DE12BR/30BR, U Series)



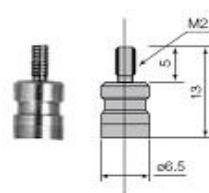
DZ-5100 Feeler set



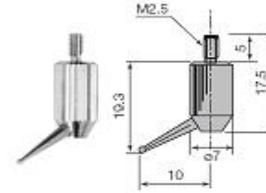
• Plastic ball contact point: ø 3mm nylon ball



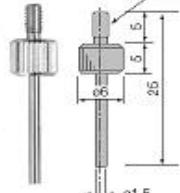
• Flat carbide contact point



• Off-center contact point: ø 1mm steel ball



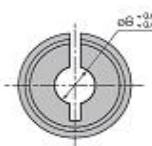
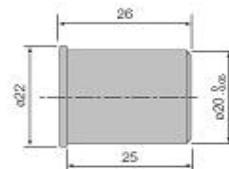
• Pin contact point



Note: The four contactors shown at right are included.

Unit : mm

DZ-811 Bushing (for mounting a U60A or a DE30BR to a DZ-501 stand)

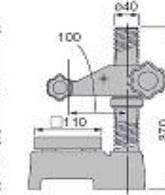
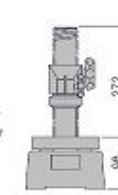
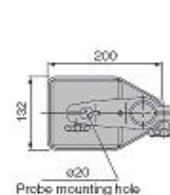


Unit : mm

DZ-501 Digital gauging stand (for DG10B to DG100B, DE-30BR)

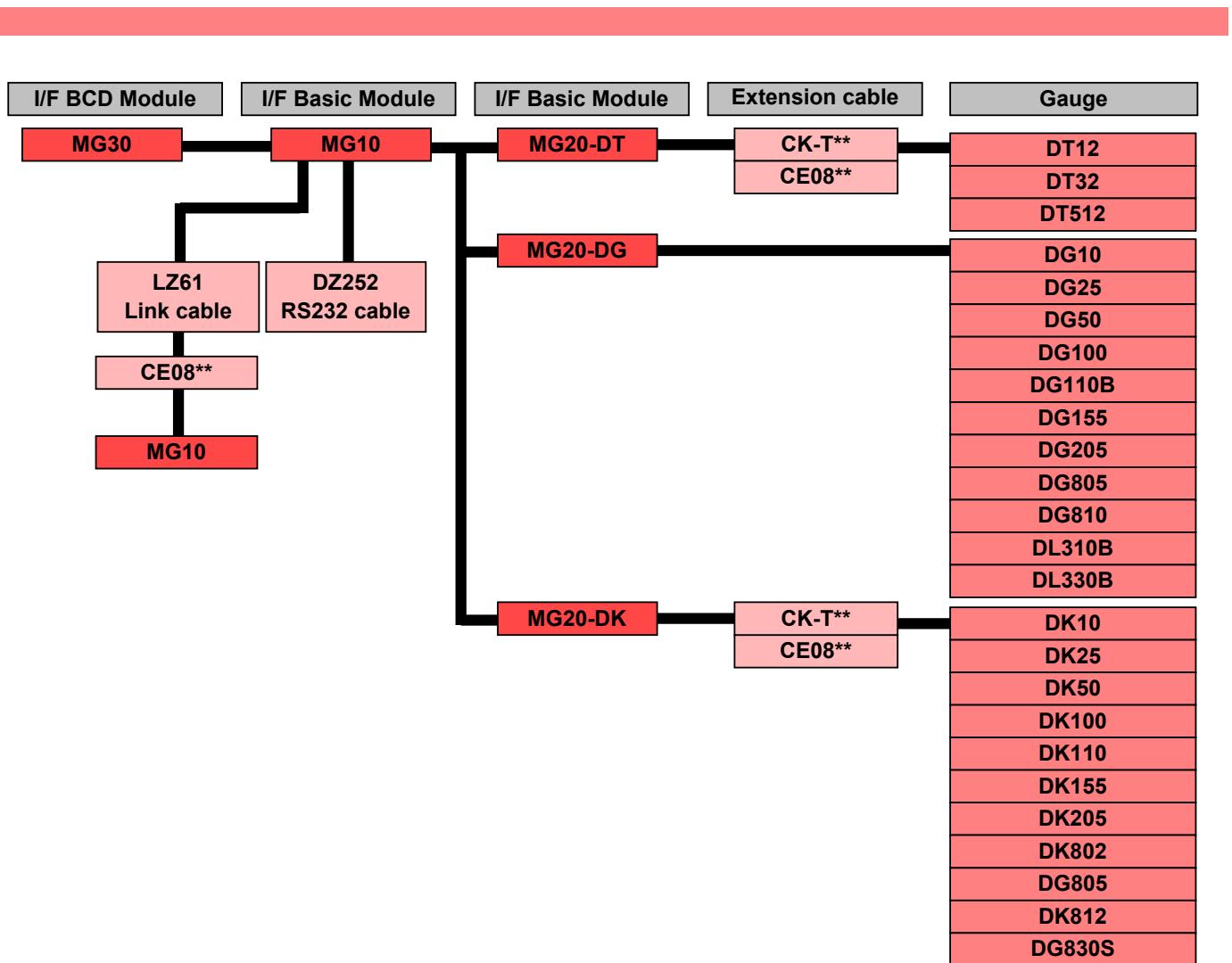


- Surface plate material: alumina ceramic
- Surface plate flatness: 2 µm
- Surface plate size: 110 mm (4.33") x 110 mm (4.33")
- Maximum workpiece height: approx. 190 mm(7.48")
- Gauge mounting hole: ø 20mm (0.79")
- Mass: 13kg (28.67 lbs)

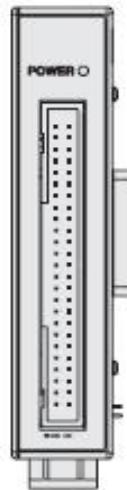


Unit : mm

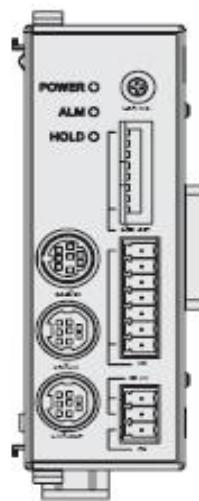
Product code	Product	Type	SRP
97922028	DZ173	Air release for DE and U series	
97922025	DZ521	Gauge stand with 8mm stem and short measuring lengths	
97922010	DZ501	Gauge stand with 20mm stem and long measuring lengths	
97993254	DZ811	Bushing to use gauge with 8mm stem with DZ501 stand	
97922012	DZ5100	Feeler set	
97920357	DZ252	RS232 cable (for U / LT / LY series to D-Sub 9P female)	
97956101	DZ253A	RS232 cable (for U / LT / LY series to D-SUB 25P male)	



MG30-B1/B2



MG10-P1/P2



MG20-DT/DG/DK



MG10 = Main module with RS232C

Product code	Product	Model	SRP
97900487	MG10-P1	Main Module with RS232 (NPN Logic)	
97900488	MG10-P2	Main Module with RS232 (PNP Logic)	

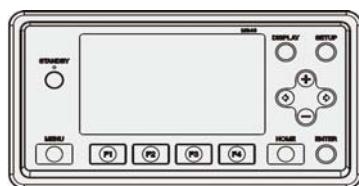
MG20 = Counter module for DG-, DK- & DT-s

Product code	Product	Model	SRP
97900489	MG20-DT	Counter module for DT-Gauges	
97900490	MG20-DG	Counter module for DG-Gauges	
97900491	MG20-DK	Counter module for DK-Gauges	

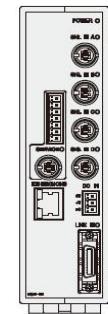
MG30 = Interface module with BCD

Product code	Product	Model	SRP
97900492	MG30-B1	Interface Module for BCD output (NPN Logic)	
97900493	MG30-B2	Interface Module for BCD output (PNP Logic)	

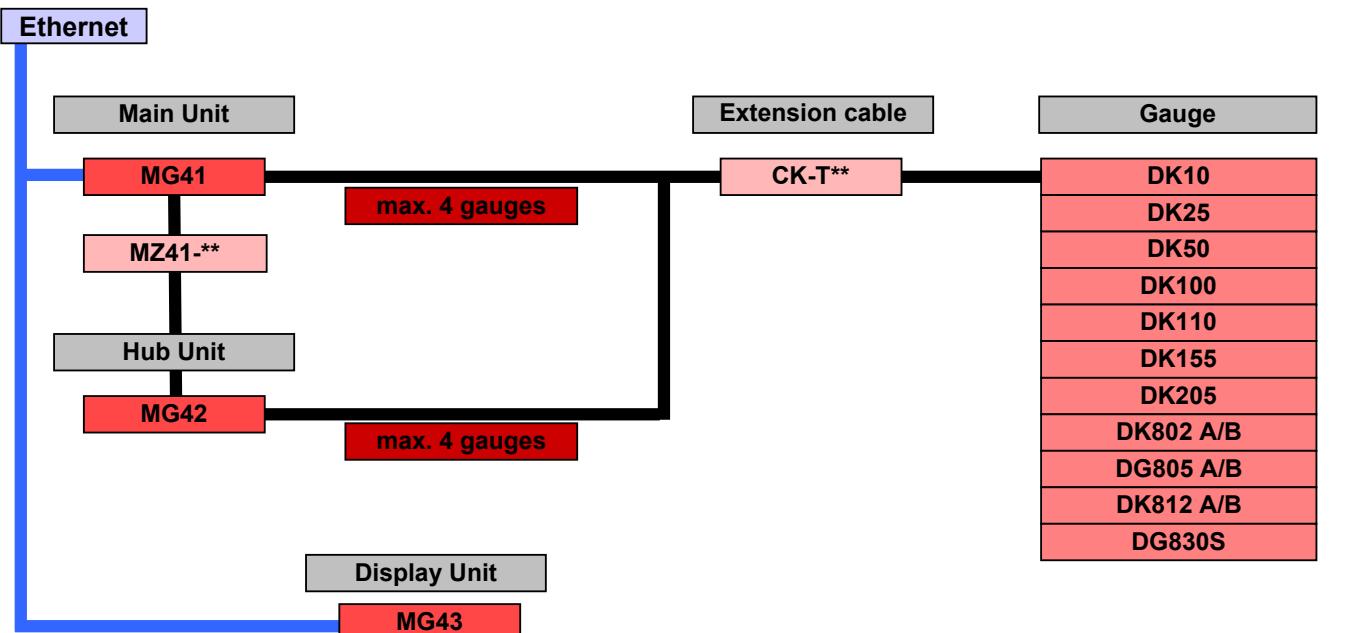
Product code	Product	Model	SRP
97920357	DZ252	RS232 cable (for U / LT / LY / MG10 series to D-Sub - 9pin male)	
97956101	DZ253A	RS232 cable (for U / LT / LY / MG10 series to D-Sub - 25pin male)	
97973401	LZ61	Link cable between MG10 modules (1m)	
97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	
97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)	
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	



Main unit
MG41-NE(Ethernet)



Hub unit
MG42

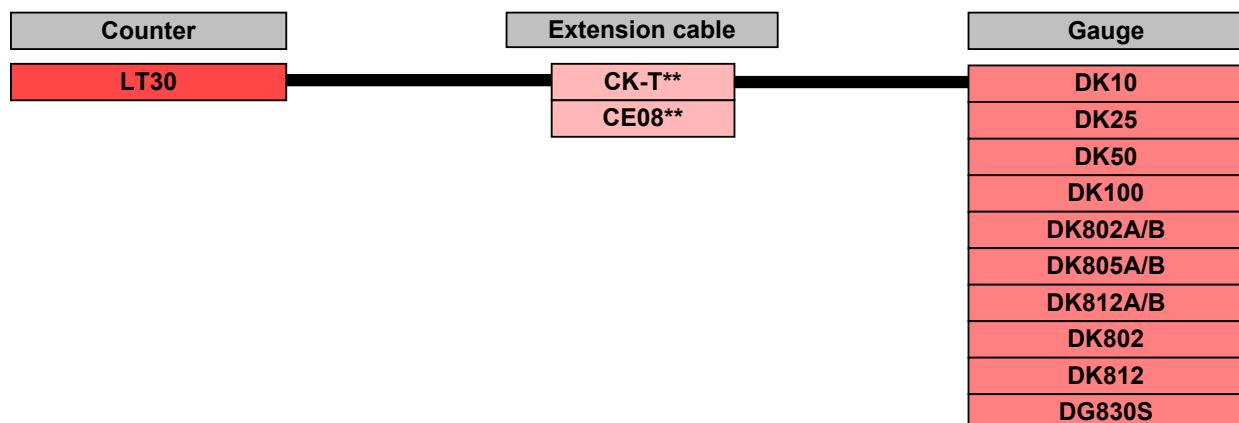
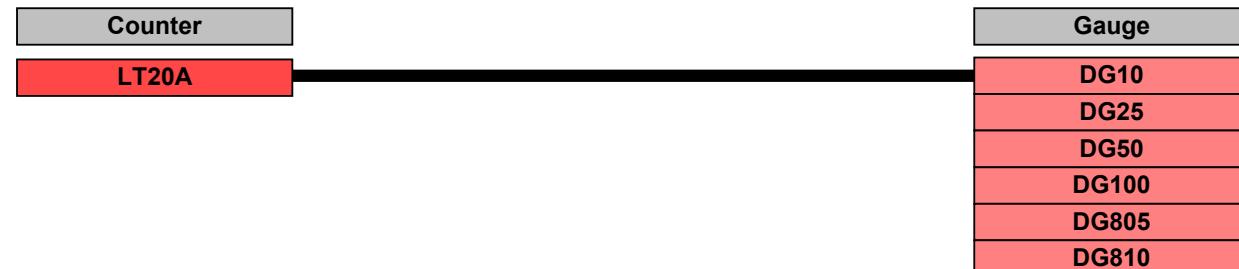
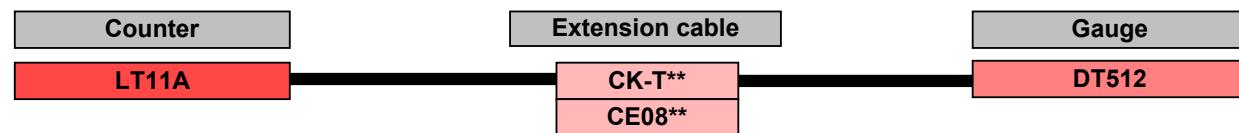
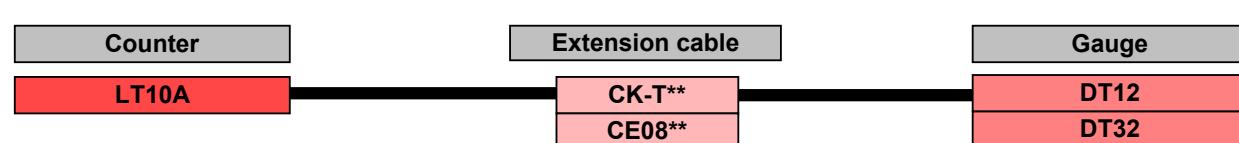
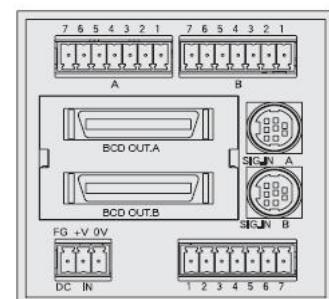
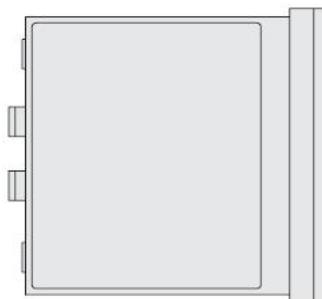
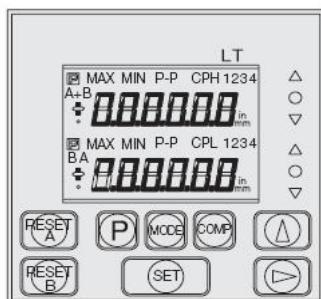


MG41 = Main module / MG42 = Extension module

Product code	Product	Model	SRP
97928899	MG41-NE	Main Module (4 channel) with Ethernet	
97928904	MG42-4	Extension Module (4 channel)	
97928905	MG43	Display unit for the MG40-Series	

97928907	MZ41-R5	Connection cable 0,5m	
97928908	MZ41-01	Connection cable 1m	
97928909	MZ41-02	Connection cable 2m	
97928910	MZ41-05	Connection cable 5m	
97928911	MZ41-10	Connection cable 10m	

97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	





Product code	Product	Model	SRP
97928504	LT10A-105	1 channel	
97928505	LT10A-105B	1 channel / BCD interface	
97928506	LT10A-105C	1 channel / RS232 interface	
97928507	LT10A-205	2 channel	
97928508	LT10A-205B	2 channel / BCD interface	
97928509	LT10A-205C	2 channel / RS232 interface	

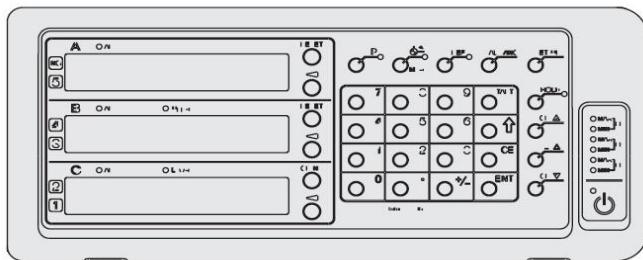
Product code	Product	Model	SRP
97928510	LT11A-101	1 channel	
97928511	LT11A-101B	1 channel / BCD interface	
97928512	LT11A-101C	1 channel / RS232 interface	
97928513	LT11A-201	2 channel	
97928514	LT11A-201B	2 channel / BCD interface	
97928515	LT11A-201C	2 channel / RS232 interface	

Product code	Product	Model	SRP
97900498	LT20A-101	1 channel	
97900499	LT20A-101B	1 channel / BCD interface	
97900500	LT20A-101C	1 channel / RS232 interface	
97928100	LT20A-201	2 channel	
97928101	LT20A-201B	2 channel / BCD interface	
97928102	LT20A-201C	2 channel / RS232 interface	

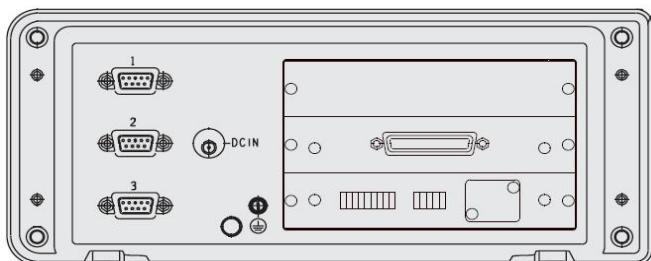
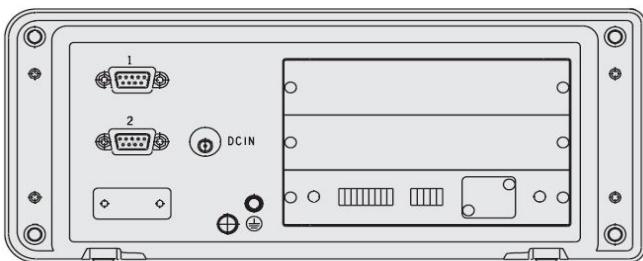
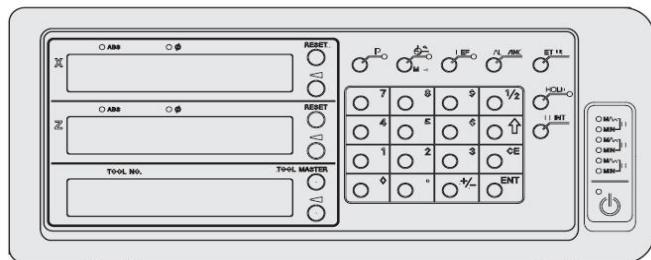
Product code	Product	Model	SRP
97928103	LT30-1G	1 channel	
97928104	LT30-1GB	1 channel / BCD interface	
97928105	LT30-1GC	1 channel / RS232 interface	
97928106	LT30-2G	2 channel	
97928107	LT30-2GB	2 channel / BCD interface	
97928108	LT30-2GC	2 channel / RS232 interface	

Product code	Product	Model	SRP
97920357	DZ252	RS232 cable (for U / LT / LY series to D-Sub 9P female)	
97956101	DZ253A	RS232 cable (for U / LT / LY series to D-Sub 25P male)	

LY71



LY72



Counter

Extension cable / Adapter cable

Scale / Gauge

LY71

LY72

GB-ER

SJ700A

PL20C

SL110/130

SZ70-1

SZ51-MS01

CE05

SR118

CH33

SR74

CH33

SR84

SZ70-1

DZ51

DG-Series

CE29

MT13

DT-Series

CE29

DK-Series

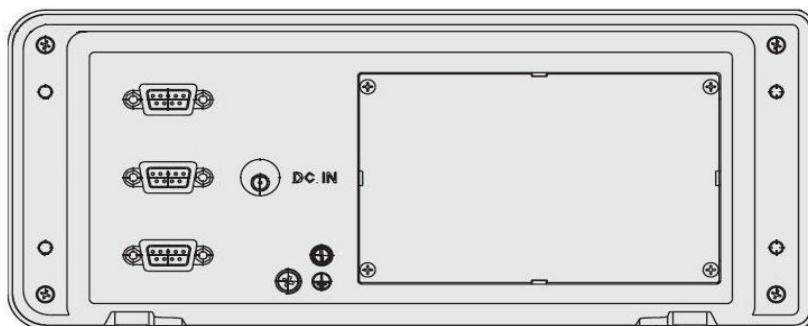
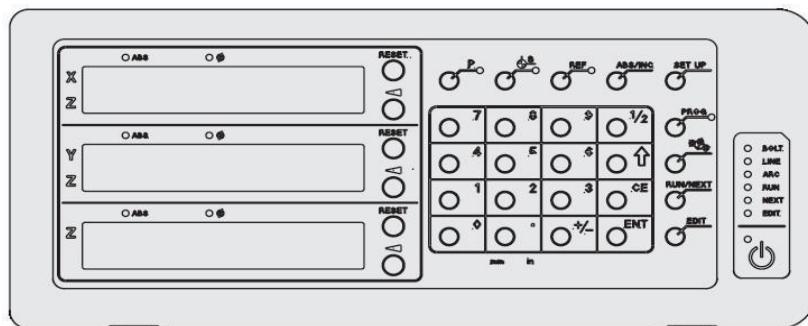
Product code	Product	Type	SRP
97928722	LY71	Counter (2 axes)	
97928724	LZ71-B	BCD output board	
97928725	LZ71-KR	Comparator function output board	
97900479	PSC23	Power supply	

Product code	Product	Type	SRP
97928723	LY72	Counter (3 axes) with RS232 output	
97900479	PSC23	Power supply	

Special output board of the LY71 for replacing the LY51

Product code	Product	Type	SRP
	LZ71-HT01	A/B phase output board	
	LZ71-BT01	BCD output board (to use 5V level output)	

LH70

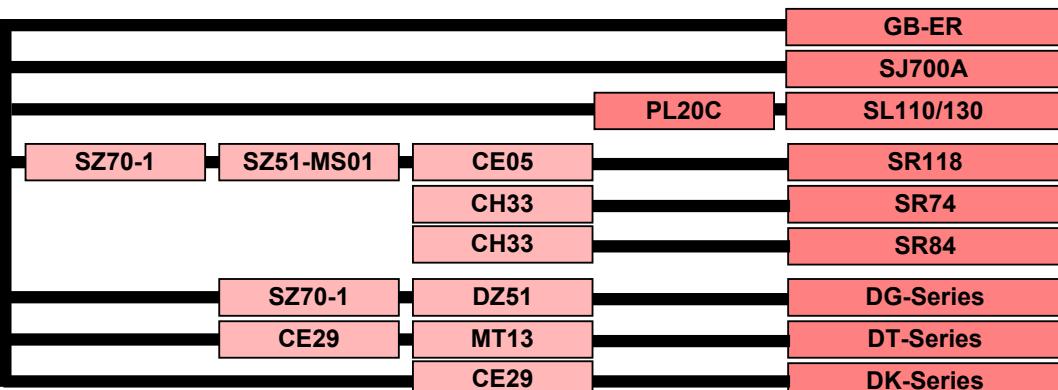


Counter

Extension cable / Adapter cable

Scale / Gauge

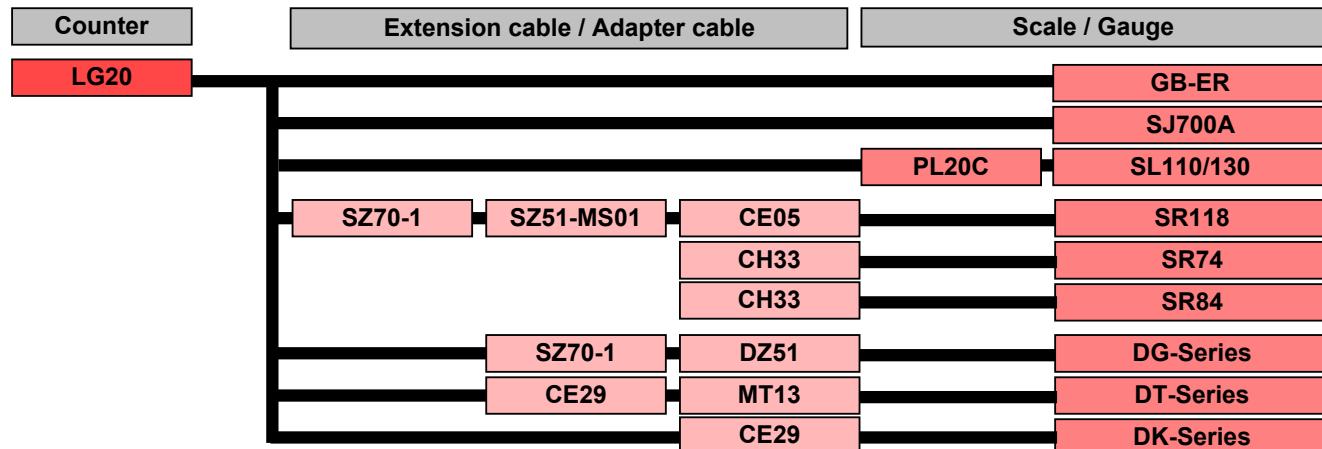
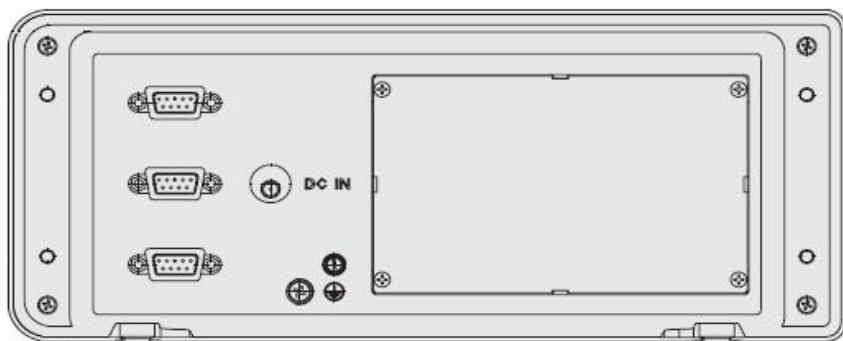
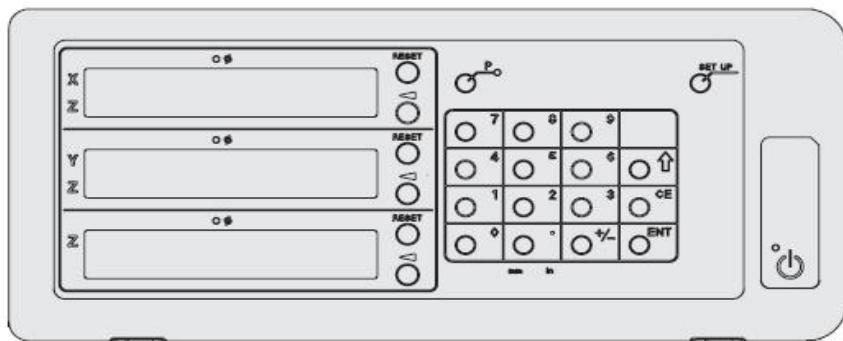
LH70/71



Product code	Product	Type	SRP
97900447	LH70-1	Counter (1 axes)	
97900448	LH70-2	Counter (2 axes)	
97900449	LH70-3	Counter (3 axes)	
97900479	PSC23	Power supply	

Product code	Product	Type	SRP
97900450	LH71-1	Counter (1 axes)	
97900451	LH71-2	Counter (2 axes)	
97900452	LH71-3	Counter (3 axes)	
97938751	LH71A-3T01	Counter (3 axes) with touch sensor function (for TS series)	
97900479	PSC23	Power supply	

LG20



Product code	Product	Type	SRP
97928727	LG20-1	Counter (1 axes)	
97928728	LG20-2	Counter (2 axes)	
97928729	LG20-3	Counter (3 axes)	
97900479	PSC23	Power supply	

Counter Accessories

LZ71 series Expansion boards (for LY71)

The functions of your LY71 counter unit can be expanded simply by inserting the expansion unit into the LY71.

LZ71-B

- BCD output of various data
- Various output modes
- Open collector output

LZ71-KR

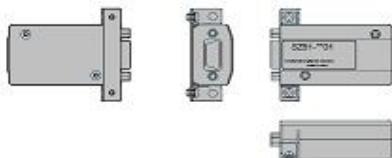
- Comparator function for various data
- Switching between 16 sets of data
- Open collector output/relay output



LZ71-B LZ71-KR

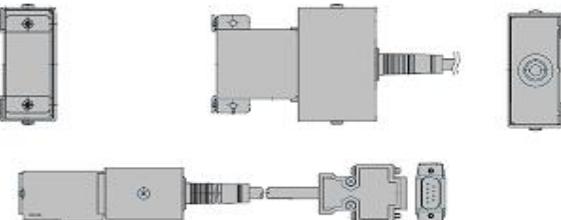
SZ51-AB01

SZ50-AB01 is required for connecting the following scale unit and counter with cable CE30.
Scale unit: GB-ER(SR138), SJ700A, PL20C
Counter : LH51/52/54-3,LY51/52,SJ700A,LG10



SZ70-1 Adapter

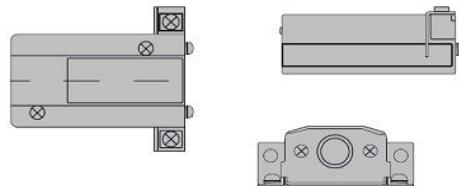
SZ70-1 is required for connecting the following scale units and counters:
Scale unit: GB-A, SR801, MSS-101 and SR11B
Counter: LH70/71,LH72,LY71 and LY72,LG20
* Adapter SZ51-MS01 is also required except GB-A.



DZ51 (Relay adapter) For connections of DG-B, DL-BR, DL-B and DT12/32N/P* to LG, LH and LY displays

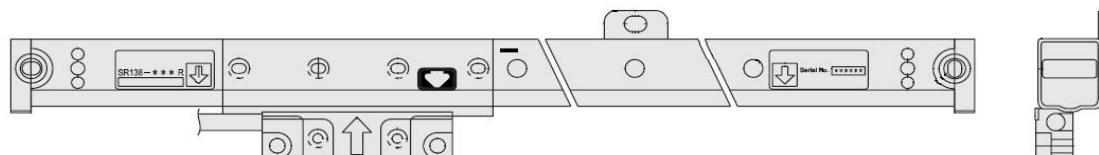
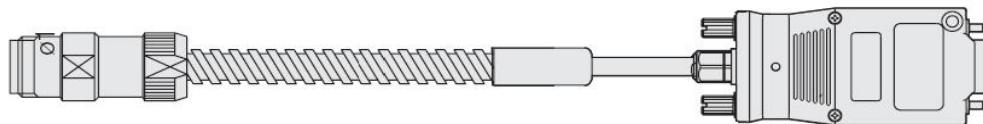
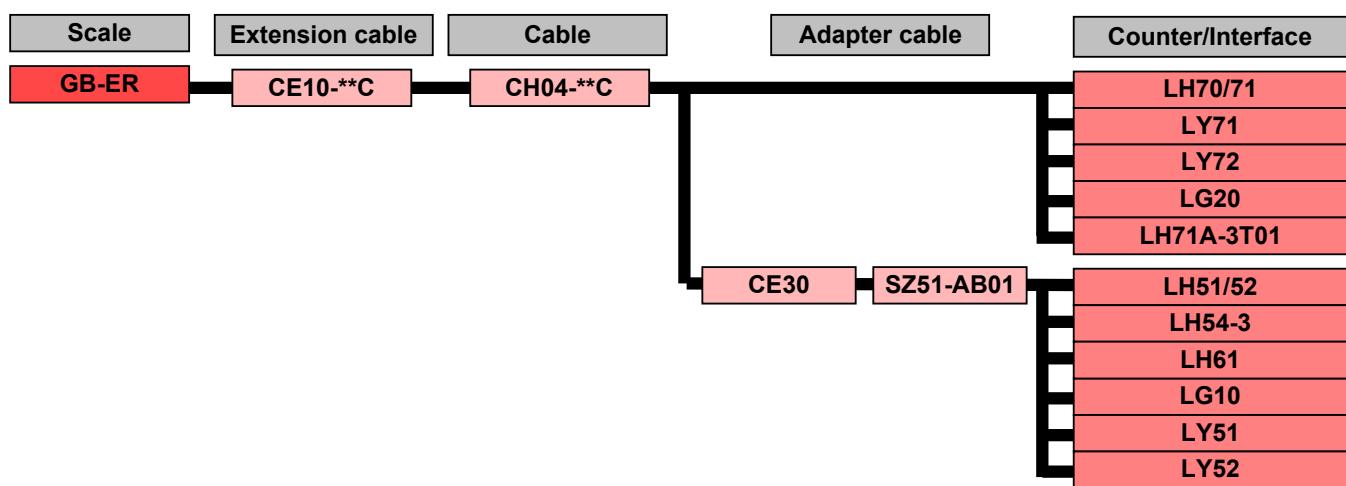
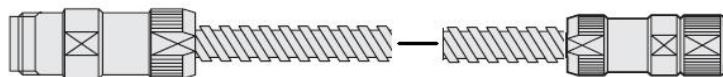


*To connect the DT12/32N/P, use the DZ51 in combination with the MT10 detector.



Product code	Product	Type	SRP
97928724	LZ71-B	BCD output board	
97928725	LZ71-KR	Comparator function output board	
97900479	PSC23	Power supply	
97967101	DZ51	Adapter for gauge	
97967301	SZ51-MS01	Adapter for CE05-XX/CE07-XX/CH01-LWXX)	
97928115	SZ70-1	Adapter for old scale GB,PL20B,DG-B	

	LZ71-BT01	special BCD output board for 5V	
	LZ71-HT01	A/B/Z-phase output for 1 channel	

GB-ER**CH04-**C****CE10-**C**

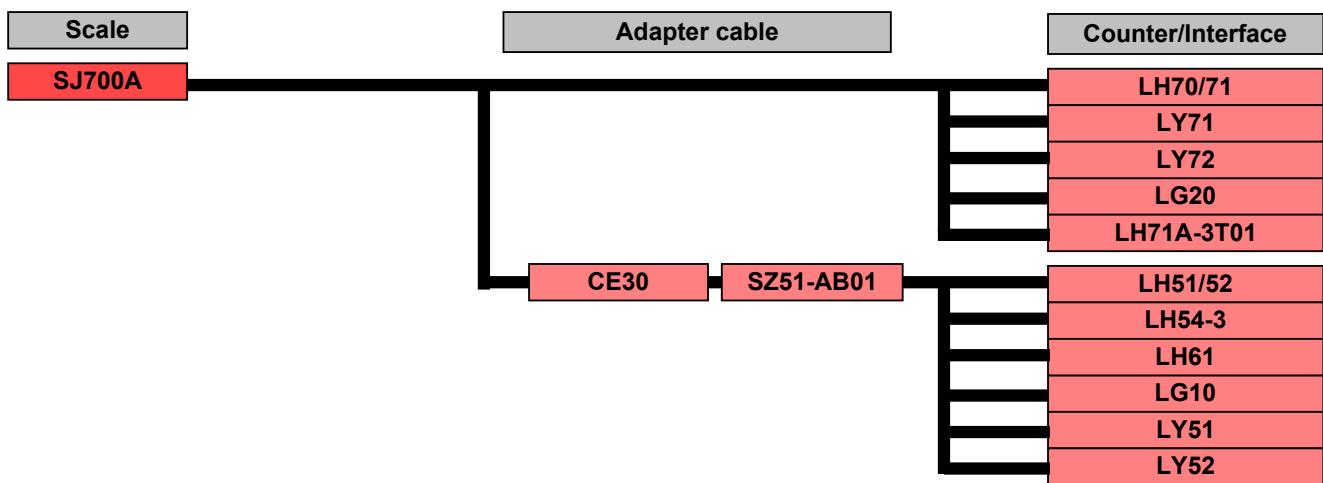
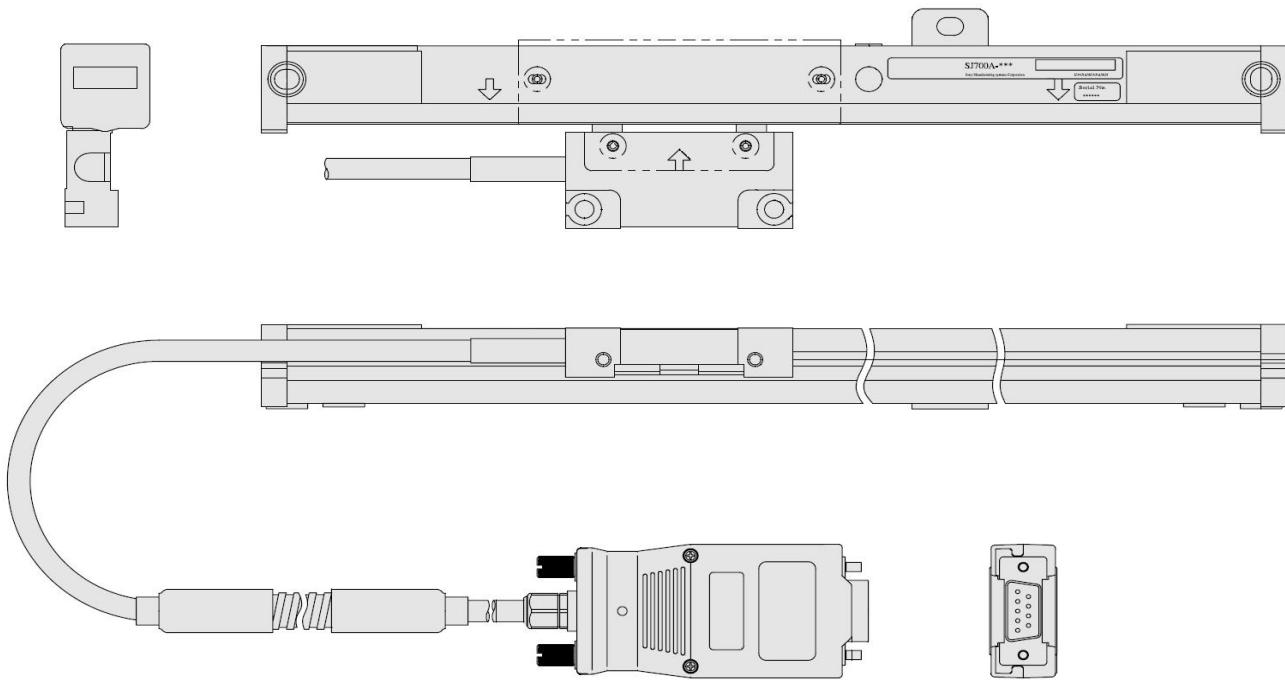
Product code	Product	Type	SRP
97928518	GB-5ER	3m cable; ML*: 50mm	
97928519	GB-10ER	3m cable; ML*: 100mm	
97928520	GB-15ER	3m cable; ML*: 150mm	
97928521	GB-20ER	3m cable; ML*: 200mm	
97928522	GB-25ER	3m cable; ML*: 250mm	
97928523	GB-30ER	3m cable; ML*: 300mm	
97928524	GB-35ER	3m cable; ML*: 350mm	
97928525	GB-40ER	3m cable; ML*: 400mm	
97928526	GB-45ER	3m cable; ML*: 450mm	
97928527	GB-50ER	3m cable; ML*: 500mm	
97928528	GB-55ER	3m cable; ML*: 550mm	
97928529	GB-60ER	3m cable; ML*: 600mm	
97928530	GB-65ER	3m cable; ML*: 650mm	
97928531	GB-75ER	3m cable; ML*: 750mm	
97928532	GB-85ER	3m cable; ML*: 850mm	
97928533	GB-95ER	3m cable; ML*: 950mm	
97928534	GB-105ER	3m cable; ML*: 1050mm	
97928535	GB-125ER	3m cable; ML*: 1250mm	
97928536	GB-140ER	3m cable; ML*: 1400mm	
97928537	GB-160ER	3m cable; ML*: 1600mm	
97928538	GB-185ER	3m cable; ML*: 1850mm	
97928539	GB-205ER	3m cable; ML*: 2050mm	
97928540	GB-220ER	3m cable; ML*: 2200mm	

Product code	Product	Type
97938729	GB-010ERT01	5m cable; ML*: 100mm
97938730	GB-035ERT01	5m cable; ML*: 350mm
97938731	GB-045ERT01	5m cable; ML*: 450mm
97938738	GB-075ERT01	5m cable; ML*: 750mm
97938732	GB-105ERT01	5m cable; ML*: 1050mm
97938733	GB-185ERT01	5m cable; ML*: 1850mm

Product code	Product	Type
97948748	GB-5ERRC	3m cable; ML*: 50mm Cable outlet right
97948749	GB-10ERRC	3m cable; ML*: 100mm Cable outlet right
97948750	GB-15ERRC	3m cable; ML*: 150mm Cable outlet right
97948751	GB-20ERRC	3m cable; ML*: 200mm Cable outlet right
97948752	GB-25ERRC	3m cable; ML*: 250mm Cable outlet right
97948753	GB-30ERRC	3m cable; ML*: 300mm Cable outlet right
97948754	GB-35ERRC	3m cable; ML*: 350mm Cable outlet right
97948755	GB-40ERRC	3m cable; ML*: 400mm Cable outlet right

Product code	Product	Type
97928564	CH04-03C	Cable for SR138R (3m; armored)
97938706	CH04-05CT01	Cable for SR138R (5m; armored)
97966101	CE10-01C	Extension cable (1m; armored)
97966102	CE10-03C	Extension cable (3m; armored)
97966103	CE10-05C	Extension cable (5m; armored)
97966104	CE10-10C	Extension cable (10m; armored)
97930125	SZ51-AB01	Adapter to connect LH50 series
97928895	CE30	Adapter cable

SJ700A



SJ700A scales with standard cable length			
Product code	Product	Type	SRP
97928710	SJ700A-015	Scale(ML:150mm;3m cable)	
97928711	SJ700A-025	Scale(ML:250mm;3m cable)	
97928712	SJ700A-035	Scale(ML:350mm;3m cable)	
97928713	SJ700A-040	Scale(ML:400mm;3m cable)	
97928714	SJ700A-050	Scale(ML:500mm;3m cable)	
97928715	SJ700A-065	Scale(ML:650mm;3m cable)	
97928716	SJ700A-080	Scale(ML:800mm;3m cable)	
97928717	SJ700A-095	Scale(ML:950mm;5m cable)	
97928718	SJ700A-105	Scale(ML:1050mm;5m cable)	
97928719	SJ700A-125	Scale(ML:1250mm;5m cable)	
97928720	SJ700A-140	Scale(ML:1400mm;5m cable)	
97928721	SJ700A-160	Scale(ML:1600mm;5m cable)	

SJ700A scales with 5m cable length			
Product code	Product	Type	SRP
97949118	SJ700A-01505	Scale(ML:150mm;5m cable)	
97949080	SJ700A-02505	Scale(ML:250mm;5m cable)	
97949081	SJ700A-03505	Scale(ML:350mm;5m cable)	
97949082	SJ700A-04005	Scale(ML:400mm;5m cable)	
97949083	SJ700A-05005	Scale(ML:500mm;5m cable)	
97950095	SJ700A-06505	Scale(ML:650mm;5m cable)	
97949252	SJ700A-08005	Scale(ML:800mm;5m cable)	

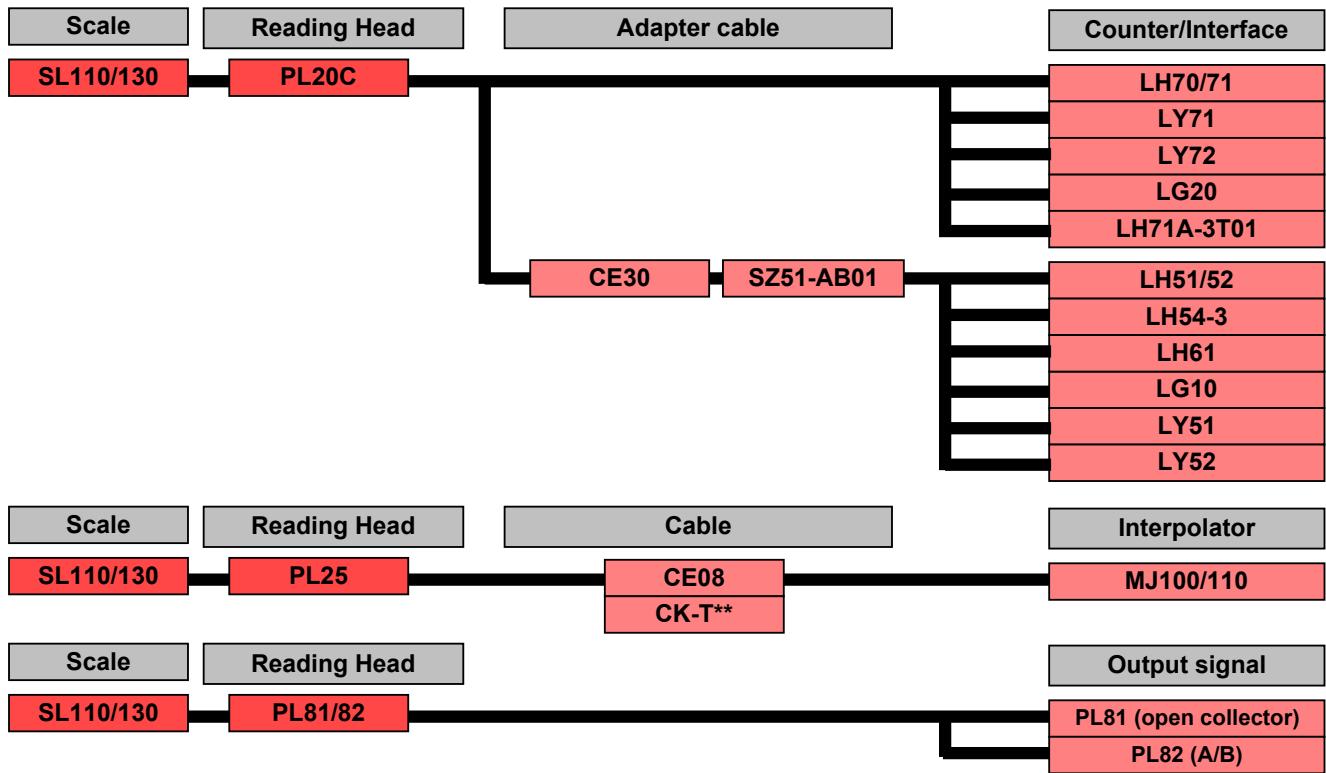
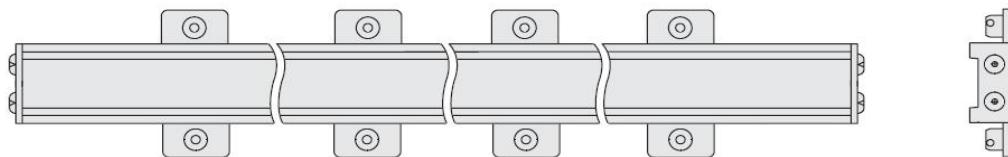
SJ700A scales with 10m cable length			
Product code	Product	Type	SRP
97951272	SJ700A-02510	Scale(ML:250mm;10m cable)	
97951269	SJ700A-03510	Scale(ML:350mm;10m cable)	
97951273	SJ700A-04010	Scale(ML:400mm;10m cable)	
97951270	SJ700A-05010	Scale(ML:500mm;10m cable)	
97949856	SJ700A-06510	Scale(ML:650mm;10m cable)	
97949504	SJ700A-08010	Scale(ML:800mm;10m cable)	
97951476	SJ700A-09510	Scale(ML:950mm;10m cable)	
97951024	SJ700A-10510	Scale(ML:1050mm;10m cable)	
97951126	SJ700A-12510	Scale(ML:1250mm;10m cable)	
97951274	SJ700A-14010	Scale(ML:1400mm;10m cable)	
97951127	SJ700A-16010	Scale(ML:1600mm;10m cable)	

Product code	Product	Type	
97930125	SZ51-AB01	Adapter to connect LH50 series	
97928895	CE30	Adapter cable	

SL130



SL110



Product code	Product	Type	SRP
97910968	SL130-20	ML:200mm	
97910969	SL130-30	ML:300mm	
97910970	SL130-40	ML:400mm	
97910971	SL130-50	ML:500mm	
97910972	SL130-60	ML:600mm	
97910973	SL130-70	ML:700mm	
97910974	SL130-80	ML:800mm	
97910964	SL130-100	ML:1m	
97910975	SL130-120	ML:1,2m	
97910976	SL130-150	ML:1,5m	
97910977	SL130-160	ML:1,6m	
97910978	SL130-170	ML:1,7m	
97910979	SL130-180	ML:1,8m	
97910980	SL130-200	ML:2m	
97910981	SL130-250	ML:2,5m	
97910982	SL130-300	ML:3m	
97910983	SL130-400	ML:4m	
97910984	SL130-500	ML:5m	
97910985	SL130-600	ML:6m	
97910986	SL130-700	ML:7m	
97911007	SL130-800	ML:8m	
97911008	SL130-900	ML:9m	
97911009	SL130-1000	ML:10m	
97990052	SL130-1200L	ML:12m	
97990219	SL130-1400L	ML:14m	
97923858	SL130-1500K	ML:15m	
97911010	SL130-2000	ML:20m	
97950484	SL130-2200L	ML:22m	
97911011	SL130-3000	ML:30m	
97930837	SL130-3000T03	ML:36m	

Product code	Product	Type	SRP
97910987	SL110-20	ML:200mm	
97910988	SL110-30	ML:300mm	
97910989	SL110-40	ML:400mm	
97910990	SL110-50	ML:500mm	
97910991	SL110-60	ML:600mm	
97910992	SL110-70	ML:700mm	
97910993	SL110-80	ML:800mm	
97910965	SL110-100	ML:1m	
97910994	SL110-120	ML:1,2m	
97910995	SL110-150	ML:1,5m	
97910996	SL110-160	ML:1,6m	
97910997	SL110-170	ML:1,7m	
97910998	SL110-180	ML:1,8m	
97910999	SL110-200	ML:2m	

Product code	Product	Type	SRP
97930125	SZ51-AB01	Adapter to connect LH50 series	
97928895	CE30	Adapter cable	

Local purchase part from Yamazen

Product code	Product	Type	SRP
000931014	DIGIRULER COVER	Digiruler Cover (2m) each piece	

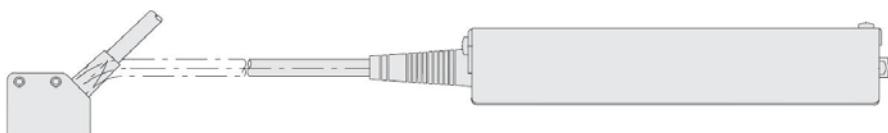
PL20C-**C(Metal armor added)



PL25



PL81/82

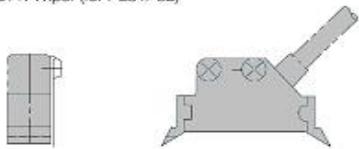


Product code	Product	Type	SRP
97928734	PL20C-3	3m Cable	
97928735	PL20C-5	5m Cable	
97928736	PL20C-10	10m Cable	
97928737	PL20C-15	15m Cable	
97928738	PL20C-20	20m Cable	
97928739	PL20C-30	30m Cable	
97928740	PL20C-3C	3m armor Cable	
97928741	PL20C-5C	5m armor Cable	
97928742	PL20C-10C	10m armor Cable	
97928743	PL20C-15C	15m armor Cable	
97928744	PL20C-20C	20m armor Cable	

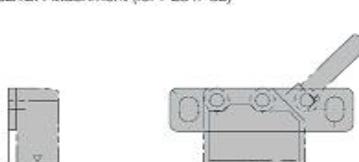
Product code	Product	Type	SRP
97958301	PL25-3	3m Cable	

Product code	Product	Type	SRP
97969801	PL81-3	Reading head with 3m Cable (Open collector output)	
97969802	PL81-5	Reading head with 5m Cable (Open collector output)	
97969803	PL81-7	Reading head with 7m Cable (Open collector output)	
97969804	PL81-A	Reading head with 10m Cable (Open collector output)	
97969805	PL81-B	Reading head with 15m Cable (Open collector output)	
97951037	PL82-L0A	Reading head with 0,5m Cable (differential line driver output)	
97969901	PL82-3	Reading head with 3m Cable (differential line driver output)	
97969902	PL82-5	Reading head with 5m Cable (differential line driver output)	
97969903	PL82-7	Reading head with 7m Cable (differential line driver output)	
97969904	PL82-A	Reading head with 10m Cable (differential line driver output)	
97969905	PL82-B	Reading head with 15m Cable (differential line driver output)	

• SZ11: Wiper (for PL81/ 82)



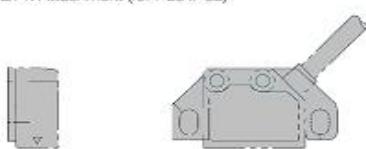
• SZ12: Attachment (for PL81/ 82)



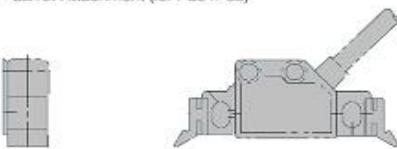
• SZ13: Attachment (for PL81/ 82)



• SZ14: Attachment (for PL81/ 82)

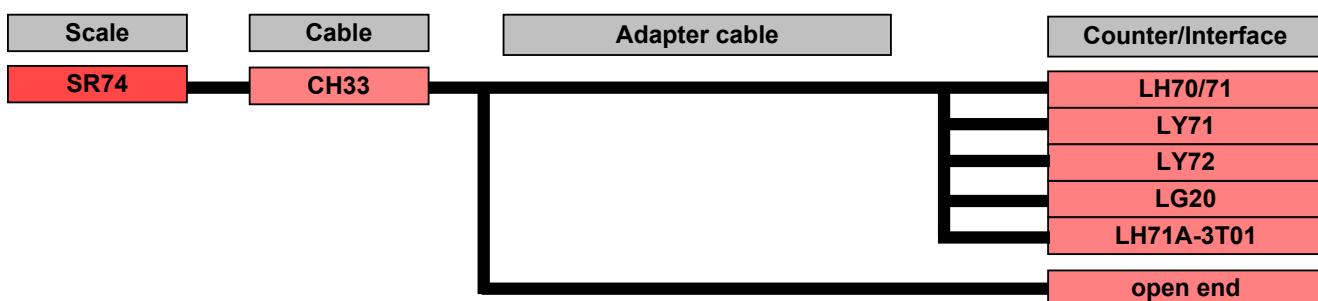


• SZ15: Attachment (for PL81/ 82)



Product code	Product	Type	SRP
97970101	SZ11	Wiper for PL81/82	
97970201	SZ12	Long Mounting Bar for PL81/82	
97970301	SZ13	Short Mounting Bar for PL81/82	
97970401	SZ14	Mounting Adapter for PL81/82 (inst. of PL20)	
97970501	SZ15	Mounting Adapter with Wiper for PL81/82 (inst. of PL20)	

97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	
97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)	
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	



SR74-□□□★○△■□□□

<Measuring length by cm>

<Cable out direction>

R:right, L:left

<Accuracy grade>

A: 5+5L/1000um

S: 3+3L/1000um

L: Measuring length by mm

<Resolution and direction>

Description	Resolution	Direction
B	0.05	+
C	0.10	+
D	0.50	+
E	1.00	+
G	0.05	-
H	0.10	-
J	0.50	-
K	1.00	-

<Minimum phase difference>

Description	Phase Difference(ns)	Description	Phase Difference(ns)
A	50	H	500
B	100	J	650
C	150	K	1000
D	200	L	1250
E	250	M	2500
F	300	N	3000
G	400		

<Ref. point position>

Single reference point position shown by mm from left end of Measuring leng
e.g. 850mm = 850

For 1000mm or longer, 2 left digits shown by alphabet

e.g.1050mm = A50

1,000~1,099mm A 1,700~1,799mm H

1,100~1,199mm B 1,800~1,899mm J

1,200~1,299mm C 1,900~1,999mm K

1,300~1,399mm D 2,000~2,040mm L

1,400~1,499mm E

1,500~1,599mm F

1,600~1,699mm G

Specific mark : X = center, Y=multi point, Z=reference mark

<Example>

SR74-062LACB045

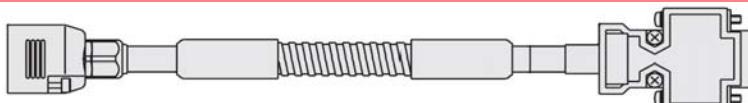
ML:620mm, Cable out :Left, Accuracy: 5+5L/1000

Resolution:0.1μm, Direction: +

Mim.phase direction: 100ns

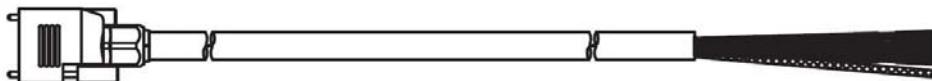
Refelence mark : 45mm from left end of Measure

Product	Accuracy	5+5ML/1000μm p-p (A)			3+3ML/1000μm p-p (S)		
	Resolution	1.0μm/0.5μm E/K / D/J	0.1μm C/H	0.05μm B/G	1.0μm/0.5μm E/K / D/J	0.1μm C/H	0.05μm B/G
Model name	ML (mm)	SRP	SRP	SRP	SRP	SRP	SRP
SR74-007	70						
SR74-012	120						
SR74-017	170						
SR74-022	220						
SR74-027	270						
SR74-032	320						
SR74-037	370						
SR74-042	420						
SR74-047	470						
SR74-052	520						
SR74-057	570						
SR74-062	620						
SR74-072	720						
SR74-077	770						
SR74-082	820						
SR74-092	920						
SR74-102	1020						
SR74-114	1140						
SR74-124	1240						
SR74-134	1340						
SR74-144	1440						
SR74-154	1540						
SR74-164	1640						
SR74-174	1740						
SR74-184	1840						
SR74-204	2040						



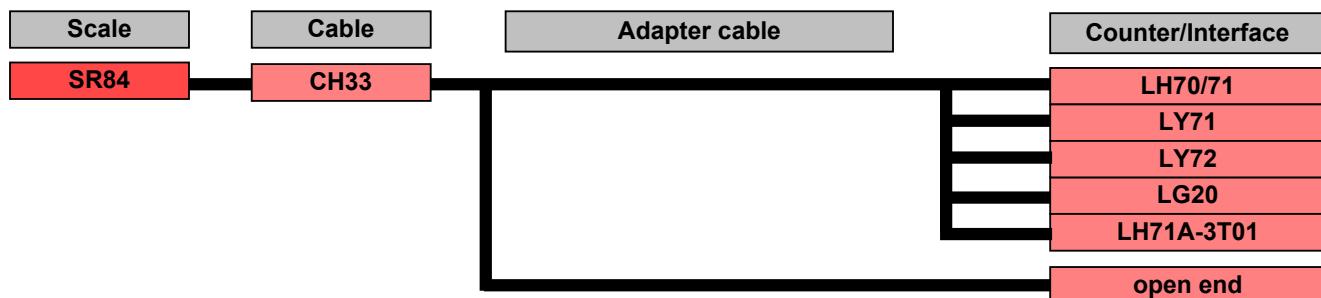
Product code	Product	Type	SRP
97950946	CH33-03CPD	3m cable / armor / PVC / Sub-D 9 pin	
97950956	CH33-05CPD	5m cable / armor / PVC / Sub-D 9 pin	
97950957	CH33-10CPD	10m cable / armor / PVC / Sub-D 9 pin	
97950958	CH33-15CPD	15m cable / armor / PVC / Sub-D 9 pin	

97950959	CH33-03CED	3m cable / armor / PU / Sub-D 9 pin	
97950960	CH33-05CED	5m cable / armor / PU / Sub-D 9 pin	
97950961	CH33-10CED	10m cable / armor / PU / Sub-D 9 pin	
97950962	CH33-15CED	15m cable / armor / PU / Sub-D 9 pin	



97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	

97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



SR84-□□□★○△■□□□

<Measuring length by cm>

<Cable out direction>
R:right, L:left

<Accuracy grade>
A: 5+5L/1000um
S: 3+3L/1000um
L: Measuring length by mm

<Resolution and direction>

Description	Resolution	Direction
B	0.05	+
C	0.10	+
D	0.50	+
E	1.00	+
G	0.05	-
H	0.10	-
J	0.50	-
K	1.00	-

<Minimum phase difference>

Description	Phase Difference(ns)	Description	Phase Difference(ns)
A	50	H	500
B	100	J	650
C	150	K	1000
D	200	L	1250
E	250	M	2500
F	300	N	3000
G	400		

<Ref. point position>

Single reference point position shown by mm from left end of Measuring leng
e.g. 850mm = 850

For 1000mm or longer, 2 left digits shown by alphabet

e.g.1050mm = A50

1,000~1,099mm	A	2,100~2,199mm	M
1,100~1,199mm	B	2,200~2,299mm	N
1,200~1,299mm	C	2,300~2,399mm	P
1,300~1,399mm	D	2,400~2,499mm	Q
1,400~1,499mm	E	2,500~2,599mm	R
1,500~1,599mm	F	2,600~2,699mm	S
1,600~1,699mm	G	2,700~2,799mm	T
1,700~1,799mm	H	2,800~2,899mm	U
1,800~1,899mm	J	2,900~2,999mm	V
1,900~1,999mm	K	3,000~3,040mm	W
2,000~2,099mm	L		

Specific mark : X = center, Y=multi point, Z=reference mark

<Example>

SR84-062LACB045

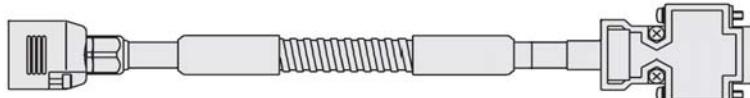
ML:620mm, Cable out :Left, Accuracy: 5+5L/1000

Resolution:0.1μm, Direction: +

Mim.phase direction: 100ns

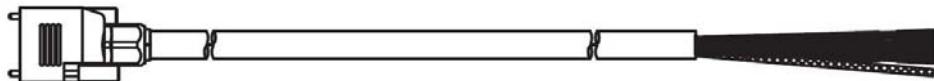
Refelence mark : 45mm from left end of Measure

Product	Accuracy	5+5ML/1000μm p-p (A)			3+3ML/1000μm p-p (S)		
	Resolution	1.0μm/0.5μm E/K / D/J	0.1μm C/H	0.05μm B/G	1.0μm/0.5μm E/K / D/J	0.1μm C/H	0.05μm B/G
Model name	ML (mm)	SRP	SRP	SRP	SRP	SRP	SRP
SR84-014	140						
SR84-024	240						
SR84-034	340						
SR84-044	440						
SR84-054	540						
SR84-064	640						
SR84-074	740						
SR84-084	840						
SR84-094	940						
SR84-104	1040						
SR84-114	1140						
SR84-124	1240						
SR84-134	1340						
SR84-144	1440						
SR84-154	1540						
SR84-164	1640						
SR84-174	1740						
SR84-184	1840						
SR84-204	2040						
SR84-224	2240						
SR84-244	2440						
SR84-264	2640						
SR84-284	2840						
SR84-304	3040						



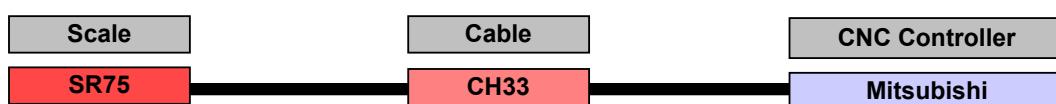
Product code	Product	Type	SRP
97950946	CH33-03CPD	3m cable / armor / PVC / Sub-D 9 pin	
97950956	CH33-05CPD	5m cable / armor / PVC / Sub-D 9 pin	
97950957	CH33-10CPD	10m cable / armor / PVC / Sub-D 9 pin	
97950958	CH33-15CPD	15m cable / armor / PVC / Sub-D 9 pin	

97950959	CH33-03CED	3m cable / armor / PU / Sub-D 9 pin	
97950960	CH33-05CED	5m cable / armor / PU / Sub-D 9 pin	
97950961	CH33-10CED	10m cable / armor / PU / Sub-D 9 pin	
97950962	CH33-15CED	15m cable / armor / PU / Sub-D 9 pin	

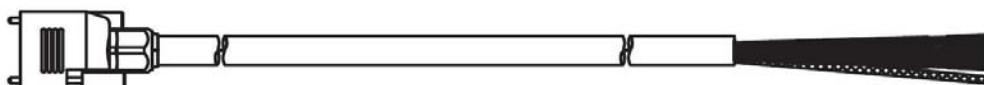


97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	

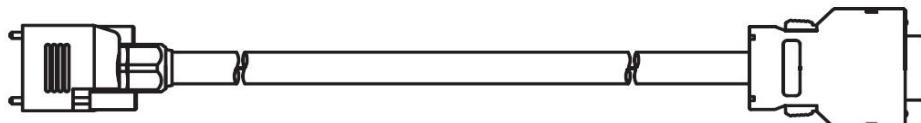
97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



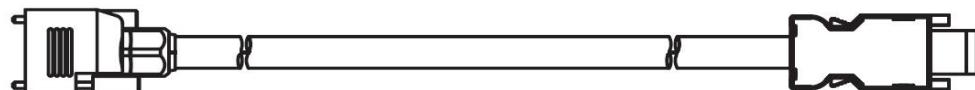
Product	Accuracy	5+5L/1000 μm p-p		3+3L/1000 μm p-p	
	Resolution	1.0/0.5/0.1μm	0.05/0.01μm	1.0/0.5/0.1μm	0.05/0.01μm
	ML: (mm)	SRP	SRP	SRP	SRP
SR75-007	70				
SR75-012	120				
SR75-017	170				
SR75-022	220				
SR75-027	270				
SR75-032	320				
SR75-037	370				
SR75-042	420				
SR75-047	470				
SR75-052	520				
SR75-057	570				
SR75-062	620				
SR75-072	720				
SR75-077	770				
SR75-082	820				
SR75-092	920				
SR75-102	1020				
SR75-114	1140				
SR75-124	1240				
SR75-134	1340				
SR75-144	1440				
SR75-154	1540				
SR75-164	1640				
SR75-174	1740				
SR75-184	1840				
SR75-204	2040				



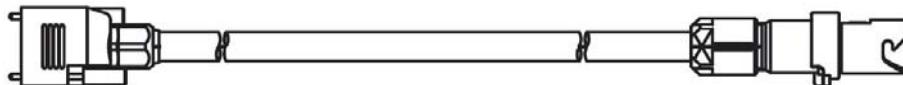
Product code	Product	Type	SRP
97950463	CH33-01NP	1m cable / PVC / open end	
97948399	CH33-02NP	2m cable / PVC / open end	
97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	
97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



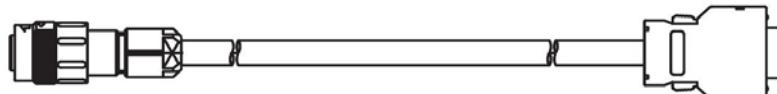
Product code	Product	Type	SRP
97948368	CH33-03NEF	PU cable (3m) with Fanuc connector	
97948366	CH33-05NEF	PU cable (5m) with Fanuc connector	
97949275	CH33-06NEF	PU cable (6m) with Fanuc connector	
97949276	CH33-09NEF	PU cable (9m) with Fanuc connector	
97948334	CH33-10NEF	PU cable (10m) with Fanuc connector	
97948246	CH33-15NEF	PU cable (15m) with Fanuc connector	
97948811	CH33-03NPF	PVC cable (3m) with Fanuc connector	
97948317	CH33-05NPF	PVC cable (5m) with Fanuc connector	
97948437	CH33-10NPF	PVC cable (10m) with Fanuc connector	
97948636	CH33-12NPF	PVC cable (12m) with Fanuc connector	
97948439	CH33-18NPF	PVC cable (18m) with Fanuc connector	
97948958	CH33-24NPF	PVC cable (24m) with Fanuc connector	



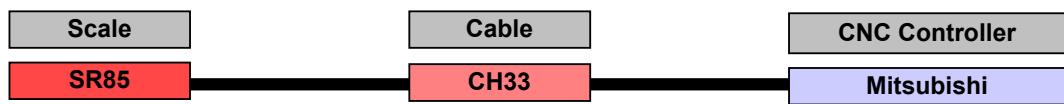
Product code	Product	Type	SRP
97948291	CH33-05NPG	PVC cable (5m) with Panasonic / Yaskawa connector	



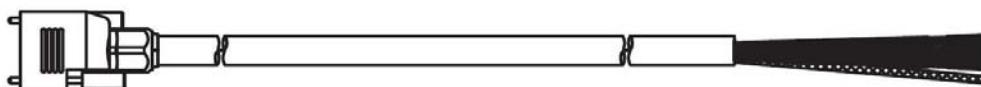
Product code	Product	Type	SRP
97948533	CH33-03NPK	PVC cable (3m) ; Scale side with coupling connector	
97948655	CH33-06NPK	PVC cable (6m) ; Scale side with coupling connector	
97948475	CH33-09NPK	PVC cable (9m) ; Scale side with coupling connector	
97948656	CH33-15NPK	PVC cable (15m) ; Scale side with coupling connector	



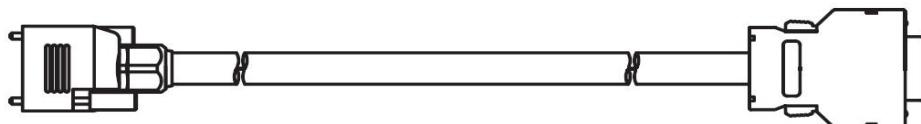
Product code	Product	Type	SRP
97948478	CH33-06NPQA	PVC cable (6m) Fanuc Controller side with coupling connector	
97948657	CH33-09NPQA	PVC cable (9m) Fanuc Controller side with coupling connector	
97948611	CH33-12NPMA	PVC cable (12m) Mitsubishi Controller side with coupling connector	



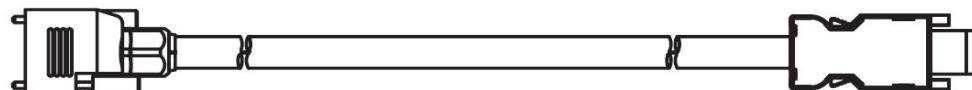
Product name*	Accuracy	5+5L/1000 μm p-p		3+3L/1000 μm p-p	
	Resolution	1.0/0.5/0.1μm	0.05/0.01μm	1.0/0.5/0.1μm	0.05/0.01μm
	ML: (mm)	SRP	SRP	SRP	SRP
SR85-014	140				
SR85-024	240				
SR85-034	340				
SR85-044	440				
SR85-054	540				
SR85-064	640				
SR85-074	740				
SR85-084	840				
SR85-094	940				
SR85-104	1.040				
SR85-114	1.140				
SR85-124	1.240				
SR85-134	1.340				
SR85-144	1.440				
SR85-154	1.540				
SR85-164	1.640				
SR85-174	1.740				
SR85-184	1.840				
SR85-204	2.040				
SR85-224	2.240				
SR85-244	2.440				
SR85-264	2.640				
SR85-284	2.840				
SR85-304	3.040				



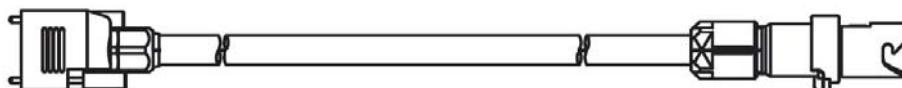
Product code	Product	Type	SRP
97950463	CH33-01NP	1m cable / PVC / open end	
97948399	CH33-02NP	2m cable / PVC / open end	
97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	
97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



Product code	Product	Type	SRP
97948368	CH33-03NEF	PU cable (3m) with Fanuc connector	
97948366	CH33-05NEF	PU cable (5m) with Fanuc connector	
97949275	CH33-06NEF	PU cable (6m) with Fanuc connector	
97949276	CH33-09NEF	PU cable (9m) with Fanuc connector	
97948334	CH33-10NEF	PU cable (10m) with Fanuc connector	
97948246	CH33-15NEF	PU cable (15m) with Fanuc connector	
97948811	CH33-03NPF	PVC cable (3m) with Fanuc connector	
97948317	CH33-05NPF	PVC cable (5m) with Fanuc connector	
97948437	CH33-10NPF	PVC cable (10m) with Fanuc connector	
97948636	CH33-12NPF	PVC cable (12m) with Fanuc connector	
97948439	CH33-18NPF	PVC cable (18m) with Fanuc connector	
97948958	CH33-24NPF	PVC cable (24m) with Fanuc connector	



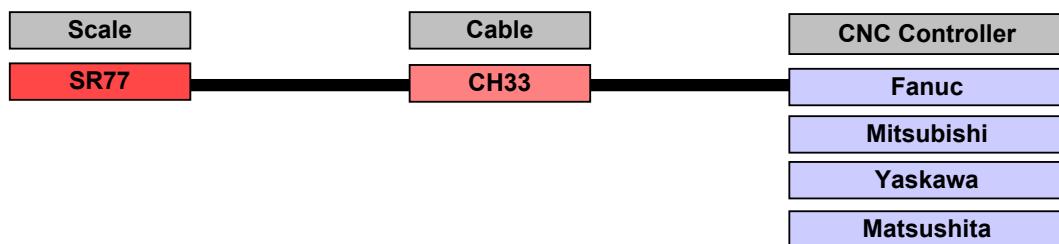
Product code	Product	Type	SRP
97948291	CH33-05NPG	PVC cable (5m) with Panasonic / Yaskawa connector	



Product code	Product	Type	SRP
97948533	CH33-03NPK	PVC cable (3m) ; Scale side with coupling connector	
97948655	CH33-06NPK	PVC cable (6m) ; Scale side with coupling connector	
97948475	CH33-09NPK	PVC cable (9m) ; Scale side with coupling connector	
97948656	CH33-15NPK	PVC cable (15m) ; Scale side with coupling connector	



Product code	Product	Type	SRP
97948478	CH33-06NPQA	PVC cable (6m) Fanuc Controller side with coupling connector	
97948657	CH33-09NPQA	PVC cable (9m) Fanuc Controller side with coupling connector	
97948611	CH33-12NPMA	PVC cable (12m) Mitsubishi Controller side with coupling connector	



SR77-□□□★○△■□□□

<Measuring length by cm>

<Cable out direction>

R:right, L:left

<Accuracy grade>

A: 5+5L/1000μm

S: 3+3L/1000μm

L:Measuring length by mm

<Resolution and direction>

For FANUC, MITSUBISHI, Panasonic

Description	Resolution	Direction
A	0.01	+
B	0.05	+
C	0.10	+
D	0.50	+
E	1.00	+
F	0.01	-
G	0.05	-
H	0.10	-
J	0.50	-
K	1.00	-

Description for MITSUBISHI is only A~C

Description for Panasonic is only B, C, D, E

For YASKAWA

Description	Division	Direction
L	1/8192	+
M	1/1024	+

<Zero point position>

Zero point position shown by mm from left end of Measuring length
e.g. 850mm = 850

For 1000mm or longer, 2 left digits shown by alphabet

e.g.1050mm = A50

1,000~1,099mm A 1,700~1,799mm H

1,100~1,199mm B 1,800~1,899mm J

1,200~1,299mm C 1,900~1,999mm K

1,300~1,399mm D 2,000~2,040mm L

1,400~1,499mm E

1,500~1,599mm F

1,600~1,699mm G

Specific mark : X = center

<Example>

SR77-012RSADX

ML:120mm, Cable out :Right, Accuracy: 3+3L/1000

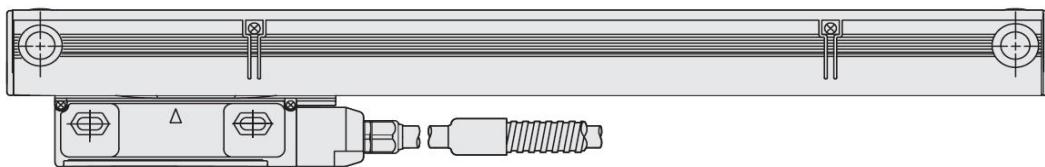
Resolution:0.01μm, Direction: +

Protocol : MITSUBISHI : 4wire

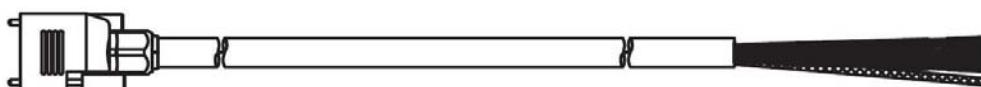
Zero point position: Center of measuring length

<Communication protocol>

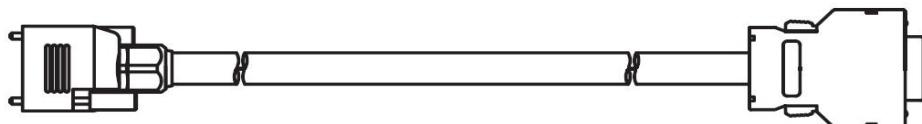
Description	NC Maker	Wire num.
A	FANUC	4
B	MITSUBISHI	2
D	MITSUBISHI	4
F	YASKAWA	2
H	Panasonic	2



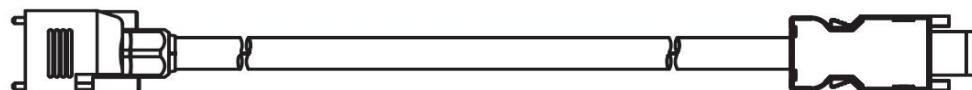
Product name	Accuracy	5+5ML/1000μm p-p (A)		3+3ML/1000μm p-p (S)	
	Resolution	1.0/0.5/0.1μm	0.05/0.01μm	1.0/0.5/0.1μm	0.05/0.01μm
		E/K-D/J-C/H	B/G-A/F	E/K-D/J-C/H	B/G-A/F
ML: (mm)	SRP	SRP	SRP	SRP	SRP
SR77-007	70				
SR77-012	120				
SR77-017	170				
SR77-022	220				
SR77-027	270				
SR77-032	320				
SR77-037	370				
SR77-042	420				
SR77-047	470				
SR77-052	520				
SR77-057	570				
SR77-062	620				
SR77-072	720				
SR77-077	770				
SR77-082	820				
SR77-092	920				
SR77-102	1.020				
SR77-114	1.140				
SR77-124	1.240				
SR77-134	1.340				
SR77-144	1.440				
SR77-154	1.540				
SR77-164	1.640				
SR77-174	1.740				
SR77-184	1.840				
SR77-204	2.040				



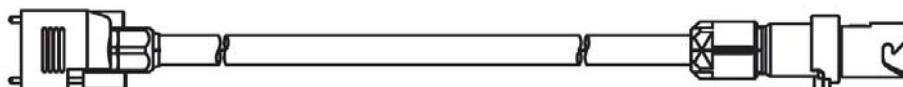
Product code	Product	Type	SRP
97950463	CH33-01NP	1m cable / PVC / open end	
97948399	CH33-02NP	2m cable / PVC / open end	
97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	
97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



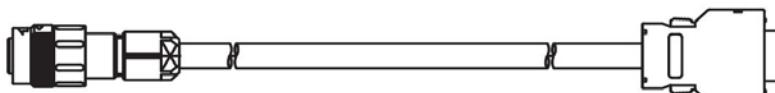
Product code	Product	Type	
97948368	CH33-03NEF	PU cable (3m) with Fanuc connector	
97948366	CH33-05NEF	PU cable (5m) with Fanuc connector	
97949275	CH33-06NEF	PU cable (6m) with Fanuc connector	
97949276	CH33-09NEF	PU cable (9m) with Fanuc connector	
97948334	CH33-10NEF	PU cable (10m) with Fanuc connector	
97948246	CH33-15NEF	PU cable (15m) with Fanuc connector	
97948811	CH33-03NPF	PVC cable (3m) with Fanuc connector	
97948317	CH33-05NPF	PVC cable (5m) with Fanuc connector	
97948437	CH33-10NPF	PVC cable (10m) with Fanuc connector	
97948636	CH33-12NPF	PVC cable (12m) with Fanuc connector	
97948439	CH33-18NPF	PVC cable (18m) with Fanuc connector	
97948958	CH33-24NPF	PVC cable (24m) with Fanuc connector	



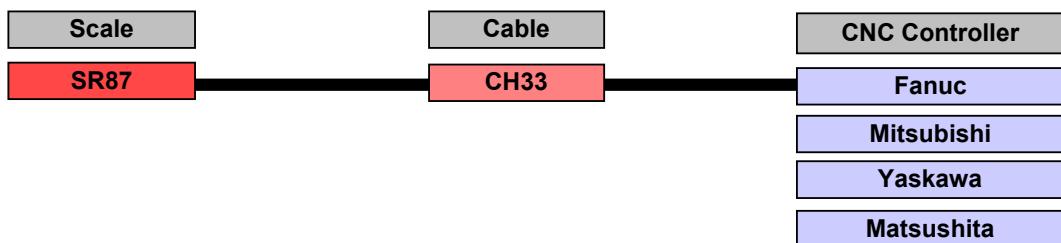
Product code	Product	Type	
97948291	CH33-05NPG	PVC cable (5m) with Panasonic / Yaskawa connector	



Product code	Product	Type	
97948533	CH33-03NPK	PVC cable (3m) ; Scale side with coupling connector	
97948655	CH33-06NPK	PVC cable (6m) ; Scale side with coupling connector	
97948475	CH33-09NPK	PVC cable (9m) ; Scale side with coupling connector	
97948656	CH33-15NPK	PVC cable (15m) ; Scale side with coupling connector	



Product code	Product	Type	
97948478	CH33-06NPQA	PVC cable (6m) Fanuc Controller side with coupling connector	
97948657	CH33-09NPQA	PVC cable (9m) Fanuc Controller side with coupling connector	
97948611	CH33-12NPMA	PVC cable (12m) Mitsubishi Controller side with coupling connector	



KEITOKU model name

SR87-□□□★○△■□□□

<Measuring length by cm>

<Cable out direction>
R:right, L:left<Accuracy grade>
A: 5+5L/1000um
S: 3+3L/1000um
L: Measuring length by mm

<Resolution and direction>

For FANUC, MITSUBISHI, Panasonic

Description	Resolution	Direction
A	0.01	+
B	0.05	+
C	0.10	+
D	0.50	+
E	1.00	+
F	0.01	-
G	0.05	-
H	0.10	-
J	0.50	-
K	1.00	-

Description for MITSUBISHI is only A~C

Description for Panasonic is only B, C, D, E

For YASKAWA

Description	Division	Direction
□ L	1/8192	+
□ M	1/1024	+

<Zero point position>

Zero point position shown by mm from left end of Measuring length
e.g. 850mm = 850

For 1000mm or longer, 2 left digits shown by alphabet

e.g. 1050mm = A50

1,000~1,099mm	A	2,100~2,199mm	M
1,100~1,199mm	B	2,200~2,299mm	N
1,200~1,299mm	C	2,300~2,399mm	P
1,300~1,399mm	D	2,400~2,499mm	Q
1,400~1,499mm	E	2,500~2,599mm	R
1,500~1,599mm	F	2,600~2,699mm	S
1,600~1,699mm	G	2,700~2,799mm	T
1,700~1,799mm	H	2,800~2,899mm	U
1,800~1,899mm	J	2,900~2,999mm	V
1,900~1,999mm	K	3,000~3,040mm	W
2,000~2,099mm	L		

Specific mark : X = center

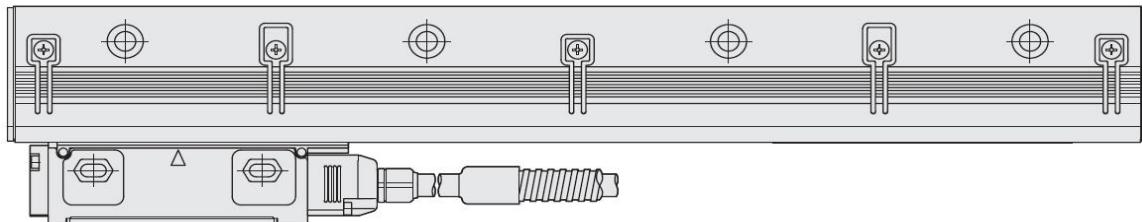
<Example>

SR87-014RSADX

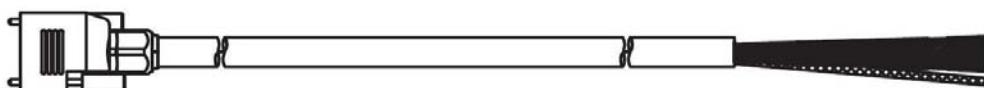
ML:140mm, Cable out :Right, Accuracy:
3+3L/1000Resolution:0.01μm, Direction: +
Protocol : MITSUBISHI : 4wire

<Communication protocol>

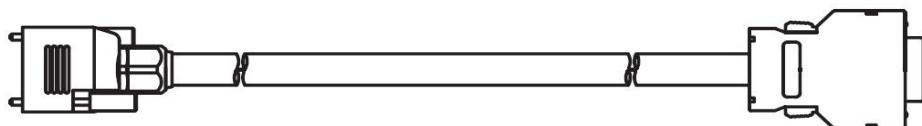
Description	NC Maker	Wire num.
□ A	FANUC	4
□ B	MITSUBISHI	2
□ D	MITSUBISHI	4
□ F	YASKAWA	2
□ H	Panasonic	2



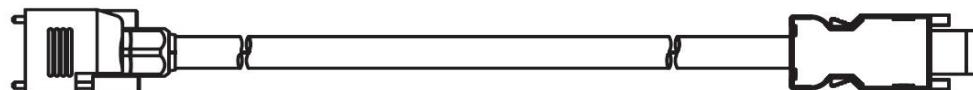
Product name	Accuracy	5+5ML/1000μm p-p (A)		3+3ML/1000μm p-p (S)	
	Resolution	1.0/0.5/0.1μm	0.05/0.01μm	1.0/0.5/0.1μm	0.05/0.01μm
		E/K-D/J-C/H	B/G-A/F	E/K-D/J-C/H	B/G-A/F
ML: (mm)	SRP	SRP	SRP	SRP	SRP
SR87-014	140				
SR87-024	240				
SR87-034	340				
SR87-044	440				
SR87-054	540				
SR87-064	640				
SR87-074	740				
SR87-084	840				
SR87-094	940				
SR87-104	1.040				
SR87-114	1.140				
SR87-124	1.240				
SR87-134	1.340				
SR87-144	1.440				
SR87-154	1.540				
SR87-164	1.640				
SR87-174	1.740				
SR87-184	1.840				
SR87-204	2.040				
SR87-224	2.240				
SR87-244	2.440				
SR87-264	2.640				
SR87-284	2.840				
SR87-304	3.040				



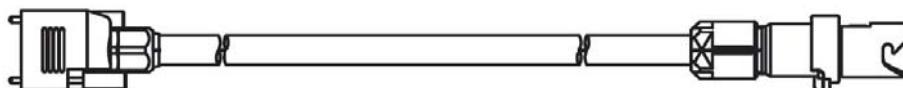
Product code	Product	Type	SRP
97950463	CH33-01NP	1m cable / PVC / open end	
97948399	CH33-02NP	2m cable / PVC / open end	
97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	
97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



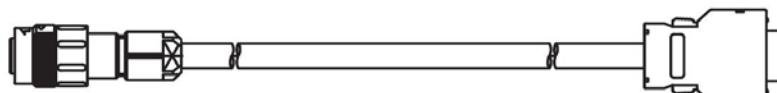
Product code	Product	Type	SRP
97948368	CH33-03NEF	PU cable (3m) with Fanuc connector	
97948366	CH33-05NEF	PU cable (5m) with Fanuc connector	
97949275	CH33-06NEF	PU cable (6m) with Fanuc connector	
97949276	CH33-09NEF	PU cable (9m) with Fanuc connector	
97948334	CH33-10NEF	PU cable (10m) with Fanuc connector	
97948246	CH33-15NEF	PU cable (15m) with Fanuc connector	
97948811	CH33-03NPF	PVC cable (3m) with Fanuc connector	
97948317	CH33-05NPF	PVC cable (5m) with Fanuc connector	
97948437	CH33-10NPF	PVC cable (10m) with Fanuc connector	
97948636	CH33-12NPF	PVC cable (12m) with Fanuc connector	
97948439	CH33-18NPF	PVC cable (18m) with Fanuc connector	
97948958	CH33-24NPF	PVC cable (24m) with Fanuc connector	



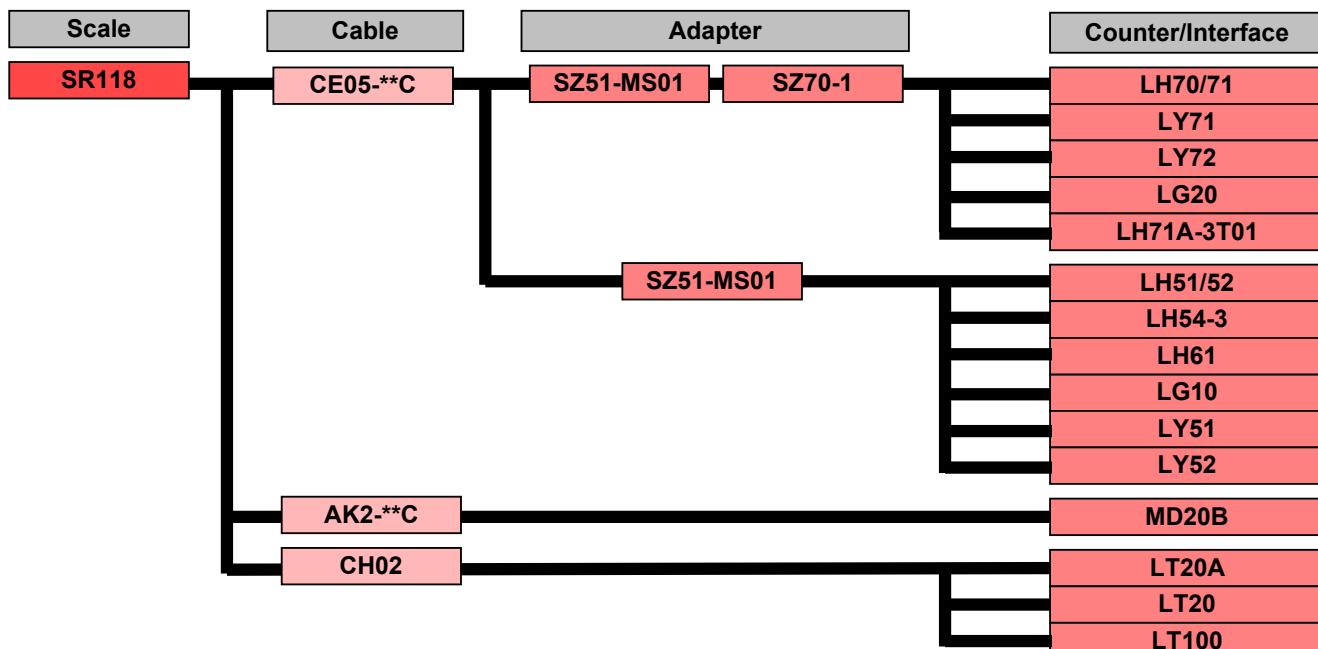
Product code	Product	Type	SRP
97948291	CH33-05NPG	PVC cable (5m) with Panasonic / Yaskawa connector	



Product code	Product	Type	SRP
97948533	CH33-03NPK	PVC cable (3m) ; Scale side with coupling connector	
97948655	CH33-06NPK	PVC cable (6m) ; Scale side with coupling connector	
97948475	CH33-09NPK	PVC cable (9m) ; Scale side with coupling connector	
97948656	CH33-15NPK	PVC cable (15m) ; Scale side with coupling connector	

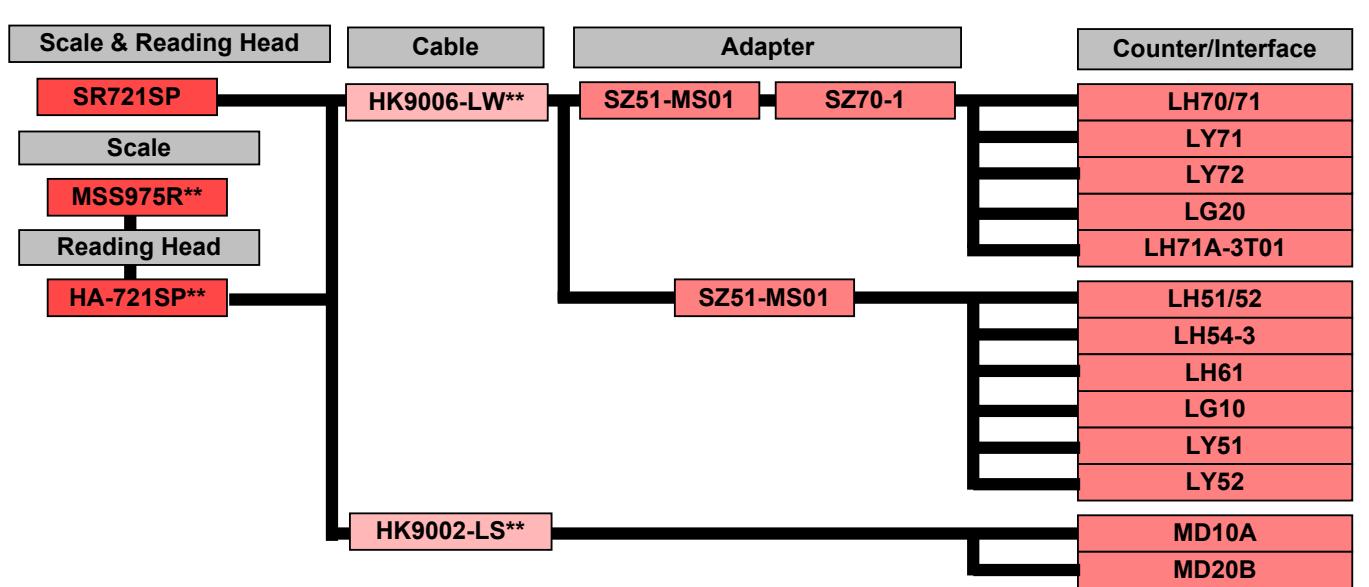


Product code	Product	Type	SRP
97948478	CH33-06NPQA	PVC cable (6m) Fanuc Controller side with coupling connector	
97948657	CH33-09NPQA	PVC cable (9m) Fanuc Controller side with coupling connector	
97948611	CH33-12NPMA	PVC cable (12m) Mitsubishi Controller side with coupling connector	



Product code	Product	Type	SRP
97965501	SR118-015	SR118-015 SCALE(15MM)	
97931110	SR118-015T02	SR118-015T02 SCALE(15MM)	
97965502	SR118-030	SR118-030 SCALE(30MM)	
97965503	SR118-060	SR118-060 SCALE(60MM)	
97965504	SR118-100	SR118-100 SCALE(100MM)	
97965505	SR118-130	SR118-130 SCALE(130MM)	
97965506	SR118-160	SR118-160 SCALE(160MM)	
97965507	SR118-210	SR118-210 SCALE(210MM)	
97965508	SR118-260	SR118-260 SCALE(260MM)	

Product code	Product	Type	SRP
97952301	CE05-3C	Adapter cable 3m with Hirose 7P/HA31A	
97952302	CE05-5C	Adapter cable 5m with Hirose 7P/HA31A	
97921085	AK2-10C	Adapter cable 10m with Hirose 7P/Sub-D	
97991267	AK2-LA03N	Adapter cable 3m with Hirose 7P/Sub-D	
97968601	CH02-01	Adapter cable 1m	
97968602	CH02-03	Adapter cable 3m	
97968603	CH02-05	Adapter cable 5m	
97967301	SZ51-MS01	Adapter for CE05-XX/CE07-XX/CH01-LWXX)	
97928115	SZ70-1	Adapter for old scale GB,PL20B,DG-B	



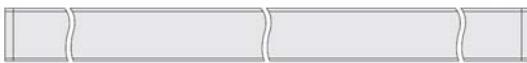
Product code	Product	Type: accuracy 5µm	SRP
97910325	SR721SP-50	SR721SP- 50MM (75:50:75) 1m cable	
97931968	SR721SP-50T01	SR721SP-50T01 10m open end cable	
97910327	SR721SP-150	SR721SP-150MM (75:150:75) 1m cable	
97910328	SR721SP-200	SR721SP-200MM (75:200:75) 1m cable	
97930635	SR721SP-200T01	SR721SP-200-T01 (75:200:75)(DEMEET)	
97910329	SR721SP-250	SR721SP-250MM (75:250:75) 1m cable	
97910330	SR721SP-300	SR721SP-300MM (75:300:75) 1m cable	
97910331	SR721SP-350	SR721SP-350MM (75:350:75) 1m cable	
97910332	SR721SP-400	SR721SP-400MM (75:400:75) 1m cable	
97938220	SR721SP-500T01	SR721SP-500T01 (ML500mm) 1m cable	
97923775	SR721SP-8001	SR721SP-8001 (75:250:75) 5,5m cable	

Product code	Product	Type	SRP
97990294	HK9006-LS03C	HK9006-LS03C(3M;CONDUIT);HIR. 8P/SUB-D15	
97990296	HK9006-LS10C	HK9006-LS10C(10M;CONDUIT);HIR.8P/SUB-D15	
97990112	HK9006-LW03C	HK9006-LW03C(3M) WITH HIROSE 8P/HA-31A	
97991247	HK9006-LW03N	HK9006-LW03N(3M) WITH HIROSE 8P/HA-31A	

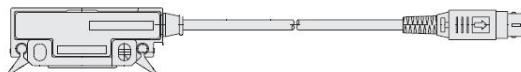
Product code	Product	Type	SRP
97923744	HA721SP-901	901 Reading head with 5,5m blank shield/protection cable	
97924553	HA721SP-902	902 Reading head with 3m thin type cable	
97924671	HA721SP-903	903 Reading head with 3m bigger dimension cable	
97930933	HA721SP-T03	T03 Reading head with 10m bigger dimension cable	
97930908	HA721SP-T05	T05 Reading head with 10m blank shield/protection cable	
97931726	HA721SP-T06	T06 Reading head with 1m blank shield/protection cable	

Product code	Product	Type: accuracy 5µm	
97950865	MSS975R-0150L02	MSS975R-150MM (75-150Y-75)	
97950871	MSS975R-0200L01	MSS975R-200MM (30-200Y-30)	
97950872	MSS975R-0200L02	MSS975R-200MM (75-200Y-75)	
97950938	MSS975R-0250L01	MSS975R-250MM (75-250Y-75)	
97947761	MSS975R-0250L02	MSS975R-250MM (30-250Y-30)	
97950874	MSS975R-0300L02	MSS975R-300MM (75-300Y-75)	
97950869	MSS975R-0350L03	MSS975R-350MM (30-350Y-30)	
97950870	MSS975R-0350L04	MSS975R-350MM (75-350Y-75)	
97950875	MSS975R-0400L01	MSS975R-400MM (30-400Y-30)	
97950876	MSS975R-0400L02	MSS975R-400MM (75-400Y-75)	
97950860	MSS975R-0450L01	MSS975R-450MM (30-450Y-30)	
97950861	MSS975R-0450L02	MSS975R-450MM (75-450Y-75)	
97948063	MSS975R-0500L04	MSS975R-500MM (30-500Y-30)	
97950877	MSS975R-0600L01	MSS975R-600MM (30-600Y-30)	
97950878	MSS975R-0600L02	MSS975R-600MM (75-600Y-75)	
97950867	MSS975R-0650L02	MSS975R-650MM (75-650Y-75)	
97950863	MSS975R-0750L02	MSS975R-750MM (75-750Y-75)	
97947663	MSS975R-0850L01	MSS975R-850MM (SR10)	
97947526	MSS975R-0950L01	MSS975R-950MM (30-950Y-30)	
97947554	MSS975R-0950L02	MSS975R-950MM (75-950Y-75)	
97947724	MSS975R-2050L01	MSS975R-2050MM (30-2050Y-30)	

SL331



PL60



Scale

Reading Head

Cable

Interpolator

SL331

PL60

CE08-**

MJ100/110

CK-T**

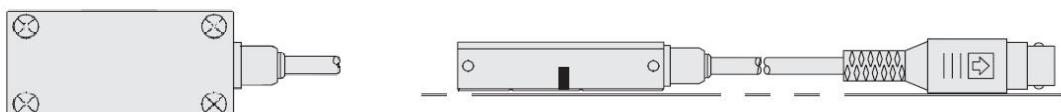
Product code	Product	Type	SRP
97958201	PL60-3	Reading head with 3m cable	

Product code	Product	Type
97957901	SL331-20	Scale; ML: 200mm
97957902	SL331-30	Scale; ML: 300mm
97957903	SL331-40	Scale; ML: 400mm
97957904	SL331-50	Scale; ML: 500mm
97957905	SL331-60	Scale; ML: 600mm
97957908	SL331-100	Scale; ML: 1000mm
97957909	SL331-120	Scale; ML: 1200mm
97957910	SL331-150	Scale; ML: 1500mm
97957911	SL331-160	Scale; ML: 1600mm
97957914	SL331-200	Scale; ML: 2000mm
97957915	SL331-250	Scale; ML: 2500mm
97957916	SL331-300	Scale; ML: 3000mm
97957917	SL331-400	Scale; ML: 4000mm
97957918	SL331-500	Scale; ML: 5000mm
97957919	SL331-600	Scale; ML: 6000mm
97957920	SL331-700	Scale; ML: 7000mm
97957921	SL331-800	Scale; ML: 8000mm

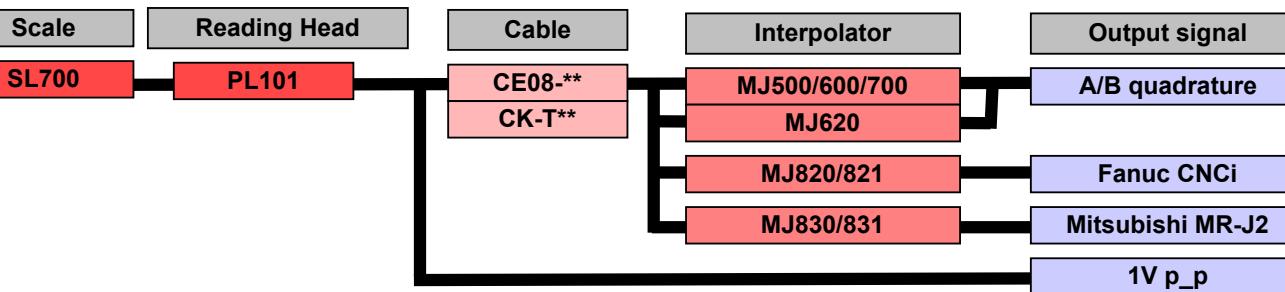
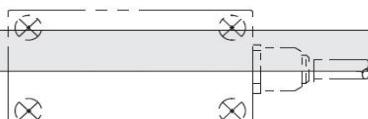
Product code	Product	Type
97924996	CK-T12	Extension cable (1m); High-flex cable
97924997	CK-T13	Extension cable (3m); High-flex cable
97924998	CK-T14	Extension cable (5m); High-flex cable
97924999	CK-T15	Extension cable (10m); High-flex cable
97930000	CK-T16	Extension cable (15m); High-flex cable

97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)

PL101-RH



SL700



Product code	Product	Model	SRP
97977485	PL101-N	Reading head / 0,3m cable / no Ref.mark detection	
97977489	PL101-R	Reading head / 0,3m cable / with Ref.mark detection	
97977488	PL101-RH	Reading head / 3,0m cable / with Ref.mark detection	

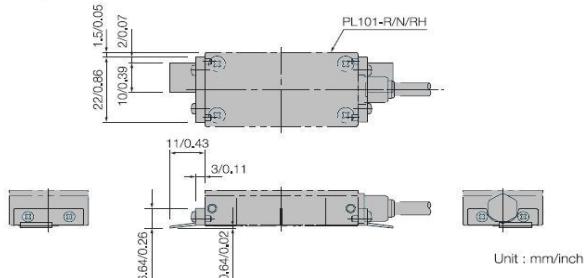
Product code	Product	Model	0
97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	
97931237	CK-T90	Extension cable (25m); High-flex cable with open end	

97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)	
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	

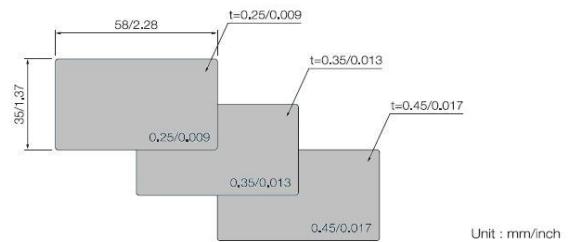
Product	Model	ML	SRP
SL700- /710-**	0005	50mm	
SL700- /710- /720-**	0010	100mm	
SL700- /710- /720-**	0015	150mm	
SL700- /710- /720- /730-**	0020	200mm	
SL700- /710- /720- /730-**	0025	250mm	
SL700- /710- /720- /730-**	0030	300mm	
SL700- /710- /720- /730-**	0035	350mm	
SL700- /710- /720- /730-**	0040	400mm	
SL700- /710- /720- /730-**	0045	450mm	
SL700- /710- /720- /730-**	0050	500mm	
SL700- /710- /720- /730-**	0055	550mm	
SL700- /710- /720- /730-**	0060	600mm	
SL700- /710- /720- /730-**	0065	650mm	
SL700- /710- /720- /730-**	0070	700mm	
SL700- /710- /720- /730-**	0075	750mm	
SL700- /710- /720- /730-**	0080	800mm	
SL700- /710- /720- /730-**	0085	850mm	
SL700- /710- /720- /730-**	0090	900mm	
SL700- /710- /720- /730-**	0095	950mm	
SL700- /710- /720- /730-**	0100	100cm	
SL700- /710- /720- /730-**	0110	110cm	
SL700- /710- /720- /730-**	0120	120cm	
SL700- /710- /720- /730-**	0130	130cm	
SL700- /710- /720- /730-**	0140	140cm	
SL700- /710- /720- /730-**	0150	150cm	
SL700- /710- /720- /730-**	0160	160cm	
SL700- /710- /720- /730-**	0170	170cm	
SL700- /710- /720- /730-**	0180	180cm	
SL700- /710- /720- /730-**	0190	190cm	
SL700- /710- /720- /730-**	0200	200cm	
SL700- /710- /720- /730-**	0210	210cm	
SL700- /710- /720- /730-**	0220	220cm	
SL700- /710- /720- /730-**	0230	230cm	
SL700- /710- /720- /730-**	0240	240cm	
SL700- /710- /720- /730-**	0250	250cm	
SL700- /710- /720- /730-**	0260	260cm	
SL700- /710- /720- /730-**	0270	270cm	
SL700- /710- /720- /730-**	0280	280cm	
SL700- /710- /720- /730-**	0290	290cm	
SL700- /710- /720- /730-**	0300	300cm	
SL700- /710- /720- /730-**	0350	350cm	
SL700- /710- /720- /730-**	0400	400cm	
SL700- /710- /720- /730-**	0450	450cm	
SL700- /710- /720- /730-**	0500	5m	
SL700- /710- /720- /730-**	0600	6m	
SL700- /710- /720- /730-**	0700	7m	
SL700- /710- /720- /730-**	0800	8m	
SL700- /710- /720- /730-**	0900	9m	
SL700- /710- /720- /730-**	1000	10m	
SL700- /710- /720- /730-**	10000	100m	

Accessories for PL101-Reading head

- SZ16:Wiper for PL101

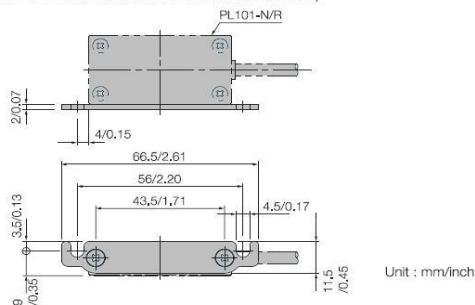


- SZ17:Spacer set
(for clearance Check t=0.25,0.35,0.45mm) for PL101



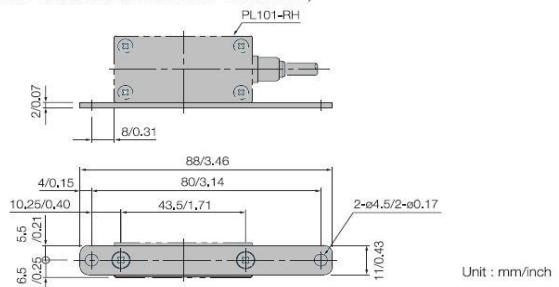
- SZ18:Attachment

(for PL101-N/PL101-R to install with threaded hole on machine)



- SZ19:Attachment

(for PL101-RH to install with threaded hole on machine)

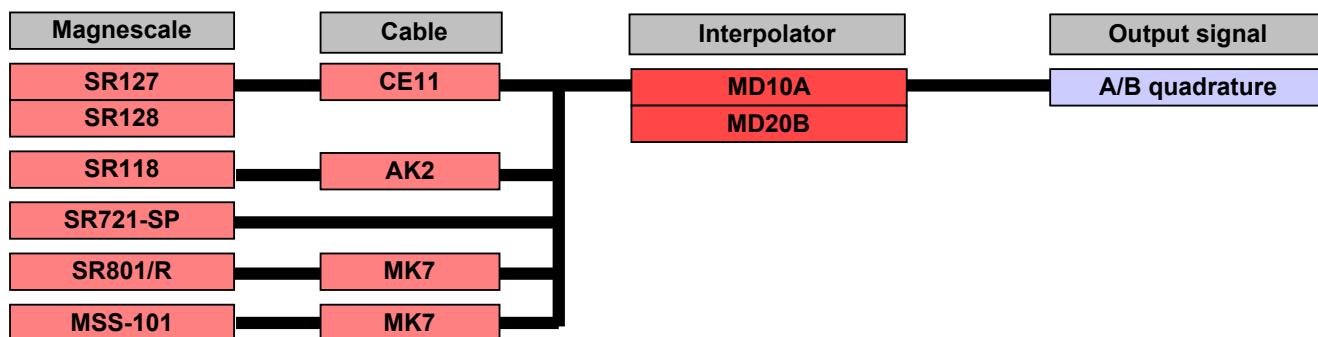


Product code	Product	Model	SRP
97977504	SZ16	Wiper (PL101 Series)	
97977503	SZ17	Spacer Kit for PL101 Series	
97977501	SZ18	Mounting Plate for PL101 Series	
97977505	SZ19	Mounting Plate for PL101 Series	

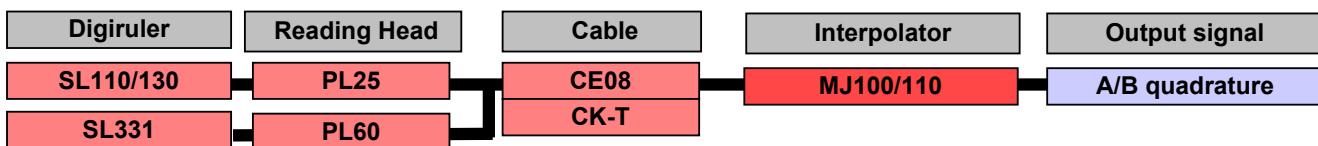
MD10A



MD20B



Product code	Product	Model	SRP
97928643	MD10A	Interpolator	
97928642	MD20B	Interpolator	
97921075	MK7-03C	cable 3m	
97921076	MK7-05C	cable 5m	
97921077	MK7-10C	cable 10m	
97921078	MK7-15C	cable 15m	
97921085	AK2-10C	Adapter cable 10m with Hirose 7P/Sub-D	
97991267	AK2-LA03N	Adapter cable 3m with Hirose 7P/Sub-D	
97968101	CE11-03C	Cable (3m; armored)	
97968102	CE11-05C	Cable (5m; armored)	
97968103	CE11-10C	Cable (10m; armored)	
97968104	CE11-15C	Cable (15m; armored)	



Product code	Product	Model	SRP
97977125	MJ100	Detector for Digiruler (RS422 output)	
97977126	MJ110	Detector for Digiruler (Open collector output)	
97977244	MZ2	Output connector for MJ100/110/620	
97977245	MZ3	Head input connector	
97977246	MZ4	Reference input connector	

Product code	Product	Model	SRP
97958201	PL60-3	Reading Head with 3m Cable	
97958301	PL25-3	Reading Head with 3m Cable	

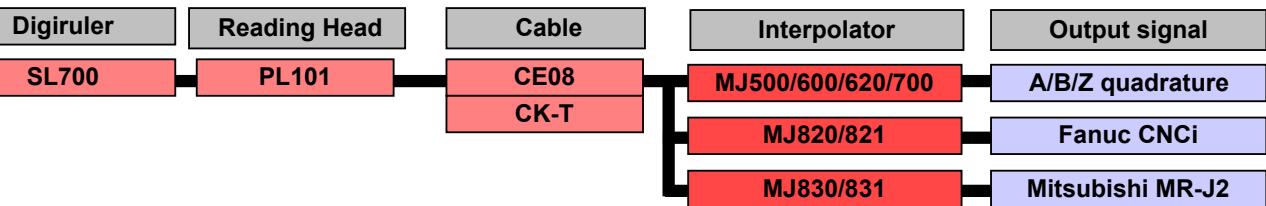
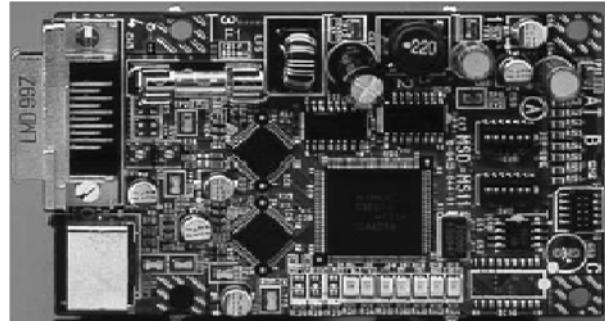
Product code	Product	Model	SRP
97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	

97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)	SRP
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	

MJ500
MJ600
MJ700
MJ820
MJ821
MJ830
MJ831



MJ620

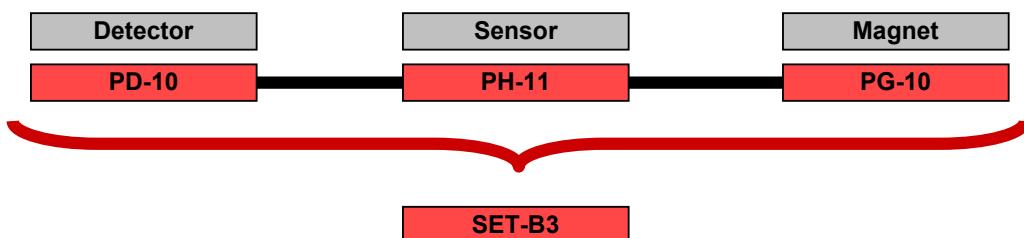
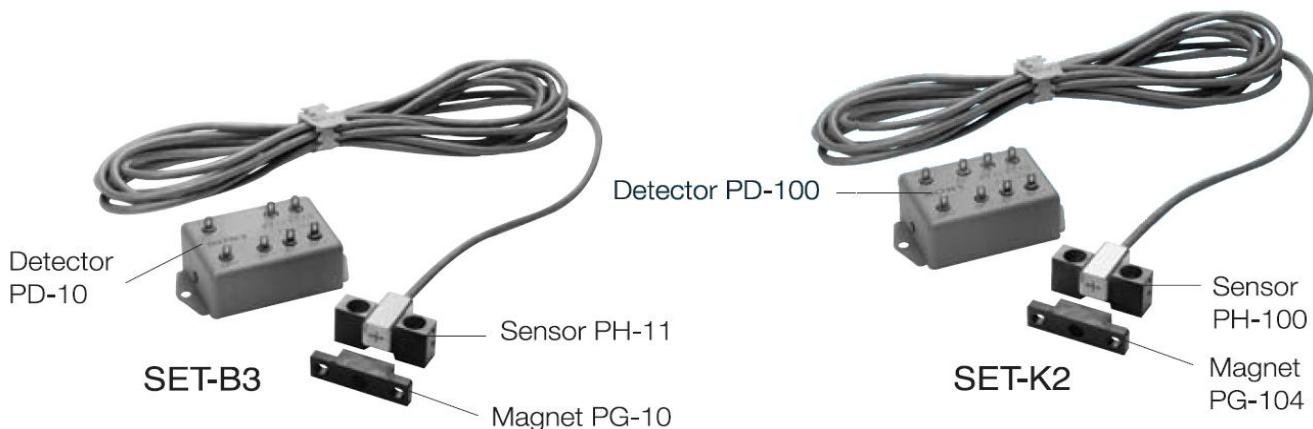


Product code	Product	Model	SRP
97977241	MJ500	Detector for A/B/Z quadrature output / Divisions 80 to 400	
97977242	MJ600	Detector for A/B/Z quadrature output / Divisions 500 to 1024	
97977490	MJ620	Detector for A/B/Z quadrature output / Divisions 35 to 800	
97977243	MJ700	Detector for A/B/Z quadrature output / Divisions 1200 to 4000	
97977517	MJ820	Detector for Fanuc CNCi (Power supply voltage: DC5V)	
97977518	MJ821	Detector for Fanuc CNCi (Power supply voltage: DC12V to 24V)	
97977519	MJ830	Detector for Mitsubishi MR-J2 (Power supply voltage: DC5V)	
97977520	MJ831	Detector for Mitsubishi MR-J2 (Power supply voltage: DC12V to 24V)	

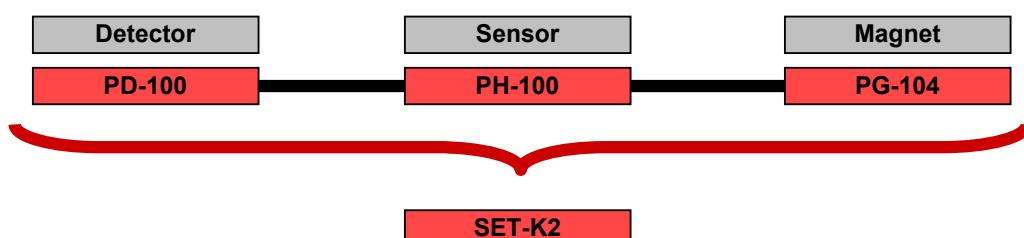
Product code	Product	Model
97977244	MZ2	Output connector for MJ100/110/620
97977502	MZ5	Housing for MJ620
97977563	MZ6	Interface connector for MJ820/821

Product code	Product	Model
97924996	CK-T12	Extension cable (1m); High-flex cable
97924997	CK-T13	Extension cable (3m); High-flex cable
97924998	CK-T14	Extension cable (5m); High-flex cable
97924999	CK-T15	Extension cable (10m); High-flex cable
97930000	CK-T16	Extension cable (15m); High-flex cable

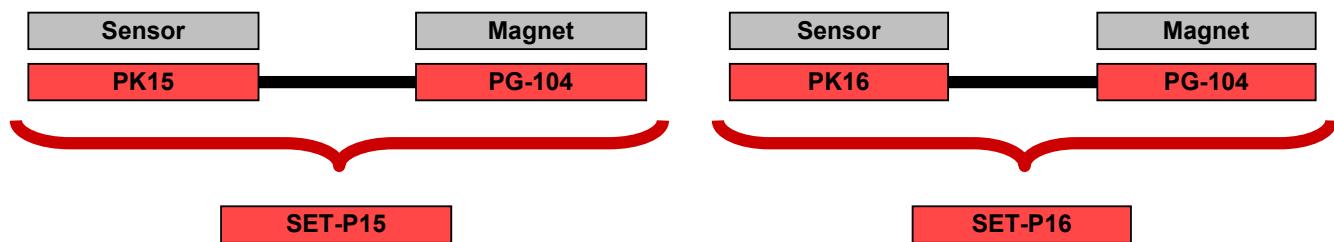
97958805	CE08-01	Extension cable 1m (It is not suitable to use of moving parts)
97958801	CE08-03	Extension cable 3m (It is not suitable to use of moving parts)
97958802	CE08-05	Extension cable 5m (It is not suitable to use of moving parts)
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)



Product code	Product	Model	SRP
97999004	SET-B3	Magnesensor	
97923011	PG10	Magnet	
97923009	PH11	Sensor	
97923018	PD10	Detector	



Product code	Product	Model	SRP
97999012	SET-K2	Magneswitch	
97923039	PG104	Magnet	
97923037	PH100	Reading head (3m cable)	
97939694	PH100-3P	Reading head (3m cable)	
97939645	PH100-5P	Reading head (5m cable)	
97923068	PH100-10P	Reading head (10m cable)	
97939606	PH100-15P	Reading head (15m cable)	
97923042	PD100	Detector	



Product code	Product	Model	SRP
97923073	SET-P15-1	Magneswitch (5V; 1,5m cable)	
97923074	SET-P15-2	Magneswitch (12V; 1,5m cable)	
97923075	SET-P15-3	Magneswitch (24V; 1,5m cable)	
97959401	SET-P16-1	Magneswitch (1,5m cable)	
97930061	SET-P16-1T01	Magneswitch (3,0m cable)	

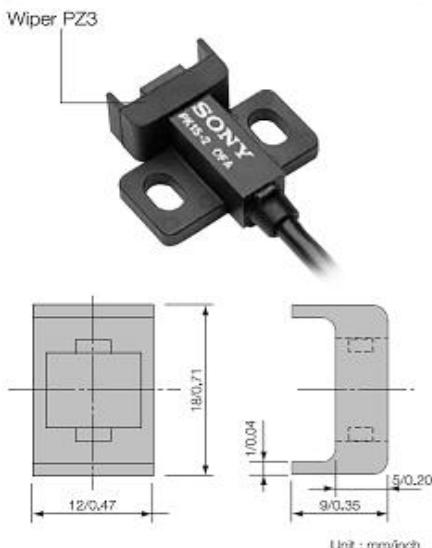
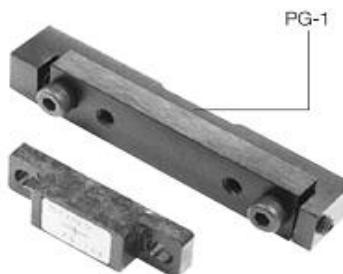
97958901	CE09-03	3m Cable (SET-P16)	
97958902	CE09-05	5m Cable (SET-P16)	
97958903	CE09-10	10m Cable (SET-P16)	
97958904	CE09-15	15m Cable (SET-P16)	

97922032	PZ3	Wiper for Set -P15/P16	
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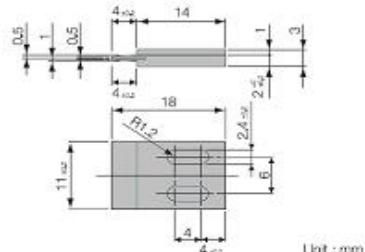


Product code	Product	Model	SRP
97923039	PG104	Magnet	
97923037	PH100	Reading head (3m cable)	
97939694	PH100-3P	Reading head (3m cable)	
97939645	PH100-5P	Reading head (5m cable)	
97923068	PH100-10P	Reading head (10m cable)	
97939606	PH100-15P	Reading head (15m cable)	
97923033	PH500	Reading head (20m cable with connector)	

PZ3 Wiper (for SET-P15/-P16)

PG-1 Magnet mount
(for magnet PG-10 and magnet PG-104)PH-1 Wiper
(for PH-11 Sensor, PH-100 Sensor and PH-500 Sensor)

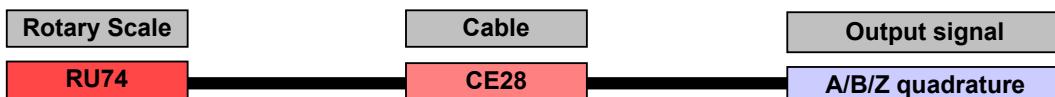
- Permits fine adjustment in the magnet's detecting direction by ± 1 mm.



Product code	Product	Model	SRP
97923036	PH1	PH-1 Wiper	
97923038	PG1	Magnet mount (for PG-10 / PG-104)	
97945626	PG9104	PG9104 Magnet chip	
97922032	PZ3	Wiper for Set -P15/P16	

RU

RU74 SERIES



R U 7 4 - 4 0 9 6 A □ ■

Legend:

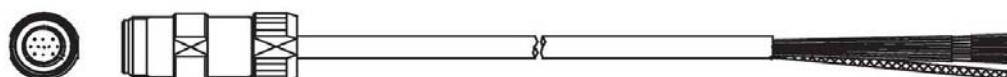
- Resolution-Revolution direction-Polarity
- Wave number/Revolution
- Output 4: A/B quadrature signal-Reference point output signal
- Design 7: Compact ($\phi 110$) Accuracy: ± 2.5 s
- Model RU: Rotary magnescale

Minimum phase differential time setting (ns)

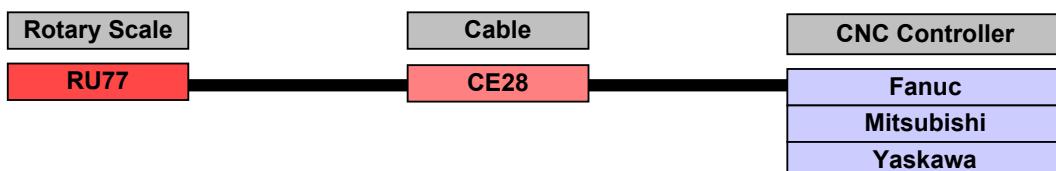
Minimum phase differential time setting (ns)	Model	Response revolutions (min ⁻¹)	
		Approx. 1/1000°	Approx. 1/10000°
50	A	2000	267
100	B	1332	133
150	C	888	89
200	D	666	67
250	E	533	53
300	F	444	44
400	G	333	33
500	H	266	27
650	J	205	21
1000	K	133	13
1250	L	107	11
2500	M	53	5
3000	N	44	4

Resolution	Revolution direction / Polarity	Pulses/Revolution	Number of division	Model
Approx. 1/1000°	CW / +	360448	88	A
Approx. 1/1000°	CCW / +	360448	88	B
Approx. 1/10000°	CW / +	3600384	879	C
Approx. 1/10000°	CCW / +	3600384	879	D

Product	Model	SRP
RU74-4096A**	Same price for all models	



Product code	Product	Model	SRP
97928791	CE28-030C	Cable for RU74 (3m armored with open end)	
97928749	CE28-030N	Cable for RU74 (3m non-armored with open end)	



RU77-4096A★○L□□

<Resolution, Pulses per Revolution and Number of Divisions>

Resolution	Pulses/ Revolution	Number of Divisions	Description
□ Approx. 2.5°/1,000	131,072	1/32	A
□ Approx. 1°/1,000	262,144	1/64	B
□ Approx. 7°/10,000	524,288	1/128	C
□ Approx. 3.5°/10,000	1,048,576	1/256	D
□ Approx. 2°/10,000	2,097,152	1/512	E
□ Approx. 1°/10,000	4,194,304	1/1,024	F
□ Approx. 4.5°/100,000	8,388,608	1/2,048	G
□ Approx. 2°/100,000	16,777,216	1/4,096	H
□ Approx. 1°/100,000	33,554,432	1/8,192	J

<Suffix numbers assigned in sequence of Keitoku P.O.>

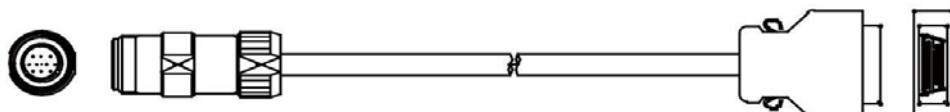
01~

<Communication protocol>

Discription	NC Maker	No. of Wires
□ A	FANUC	4
□ B	MITSUBISHI	2
□ D	MITSUBISHI	4
□ F	YASUKAWA	2

Specs. compatible with YASUKAWA
is only D.

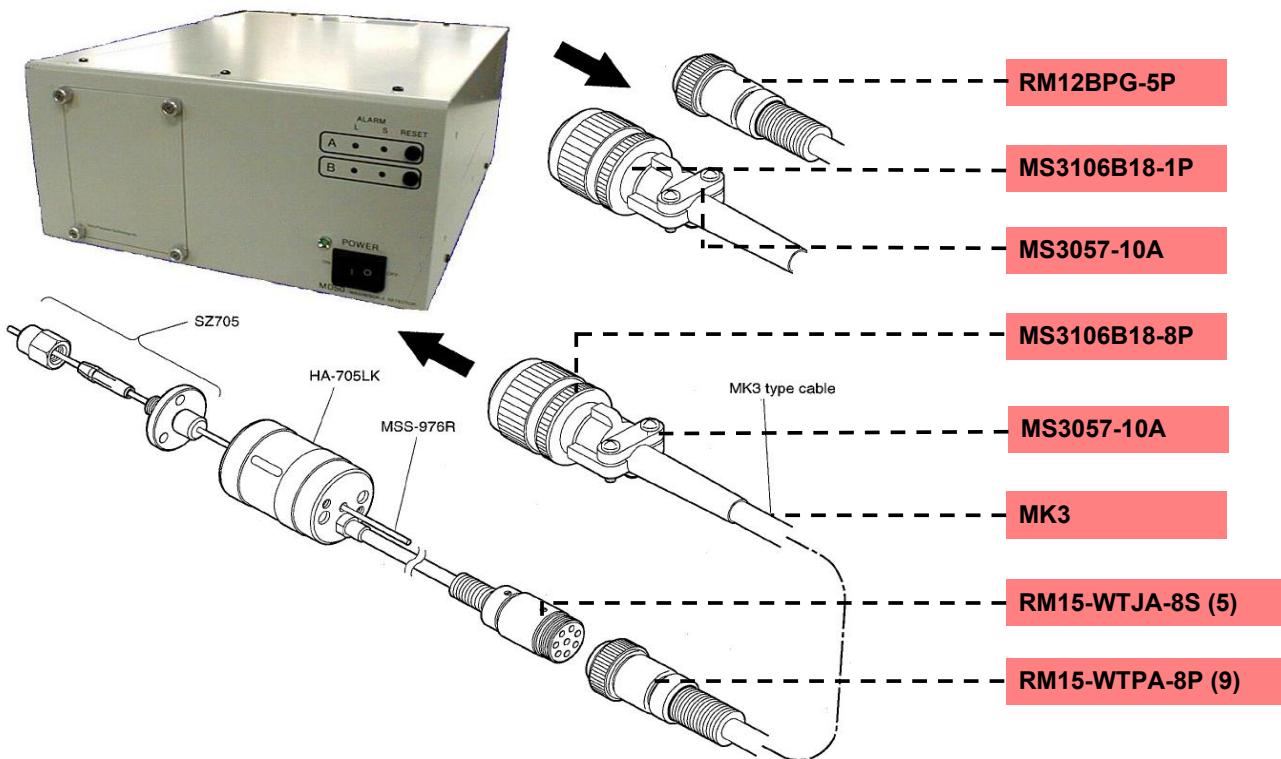
Product	Model	SRP
RU77-4096A**	Same price for all models	



Product code	Product	Model	
97949027	CE28-020NF	Cable for RU77 to connect to Fanuc Controller 2m	
97948642	CE28-030NF	Cable for RU77 to connect to Fanuc Controller 3m	
97948612	CE28-050NF	Cable for RU77 to connect to Fanuc Controller 5m	
97949387	CE28-100NF	Cable for RU77 to connect to Fanuc Controller 10m	

Rolling Mill

Line-Up



Rolling Mill Scales

Product code	Product	Model	SRP
97947686	MSS976R-0100L03	MSS975R-100MM (30-100Y-30)	
97950909	MSS976R-0150L02	MSS976R-150MM (30-150Y-30)	
97950943	MSS976R-0200L04	MSS976R-200MM (30-200Y-30)	
97948263	MSS976R-0250L09	MSS976R-230MM (30-230Y-30)	
97950911	MSS976R-0250L02	MSS976R-250MM (30-250Y-30)	
97950907	MSS976R-0300L03	MSS976R-300MM (30-300Y-30)	
97950858	MSS976R-0350L01	MSS976R-350MM (30-350Y-30)	
97950982	MSS976R-0400L03	MSS976R-400MM (30-400Y-30)	
97950908	MSS976R-0450L02	MSS976R-450MM (30-450Y-30)	
97950910	MSS976R-0500L02	MSS976R-500MM (30-500Y-30)	
97950879	MSS976R-0600L02	MSS976R-550MM (30-550Y-30)	
97950880	MSS976R-0600L01	MSS976R-600MM (30-600Y-30)	
97950883	MSS976R-0700L03	MSS976R-650MM (30-650Y-30)	
97950881	MSS976R-0700L01	MSS976R-700MM (30-700Y-30)	
97950932	MSS976R-0250L03	MSS976R-250MM (75-250Y-75)	
97950859	MSS976R-0350L02	MSS976R-350MM (75-350Y-75)	
97930544	MSS976R-650T01	MSS-976R 650T01 (30:650R:30) NO TENSION	

Rolling Mill Reading Heads

Product code	Product	Model	SRP
97939225	HA-705LK-903	Reading head (1m cable with connector)	
97939605	HA-705LK-905	Reading head (2,5m cable with connector)	
97939642	HA-705LK-906	Reading head (1m cable without connector)	
97939643	HA-705LK-907	Reading head (1,5m cable without connector)	
97924947	HA-705LK-913	Reading head (10m cable without connector)	
97930889	HA705LK-T02	Reader head (5m open end cable + RM15WTJA-8S-(6)-(03) connector)	
97939408	HA705LK-T07	Reading Head (15M open end, without connector)	

Rolling Mill

Line-Up

Rolling Mill Detectors

Product code	Product	Model	SRP
97978084	MD50-2N	Detector (2 channel)	
97978087	MD50-4N	Detector (4 channel)	

Rolling Mill cable including connector for HA-705LK and MD50

Product code	Product	Model	SRP
97921066	MK3-30	Cable (30m)	
97921093	MK3-50	Cable (50m)	
97921040	MK3-100	Cable (100m)	
97921067	MK3-120	Cable (120m)	
97921068	MK3-135	Cable (135m)	
97921041	MK3-150	Cable (150m)	

Rolling Mill accessories

Product code	Product	Model	SRP
97991867	SZ705	Scale chuck for MSS976R scale	

Local purchase part from Yamazen

Rolling Mill connector for reading head HA-705LK

Product code	Product	Model	SRP
182110211	RM15-WTJA-8S (5)	Female connector for HA-705LK reading head	

Rolling Mill connector for cable MSK-8P

Product code	Product	Model	SRP
182110311	RM15-WTPA-8P (9)	Male connector for MSK-8P to HA-705LK reading head	
150847612	MS3106B18-8P	Input connector for MD50	
150945512	MS3057-10A	Connector clamp for MS3106B18-8P	

Rolling Mill output connector for MD50 detector

Product code	Product	Model	SRP
150896911	MS3106B18-1P	Output connector for MD50	
150945512	MS3057-10A	Connector clamp for MS3106B18-8P	

Connector Holder Clamp for MK3

Product code	Product	Model	SRP
294700101	Connector Holder/Clamp	Connector Holder/Clamp (MK3)	each 1pc.

Cable for Rolling Mill Application

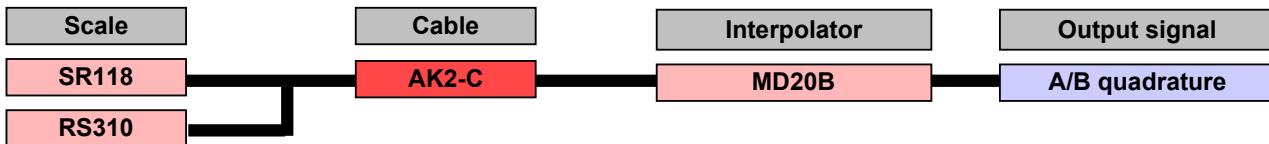
Product code	Product	Model	SRP
761306340	MSK-8P	Cable without connector	each meter

Scale chuck for MSS976 scales

Product code	Product	Model	SRP
050222451	SZ705-D01	Scale chuck (Local Purchase)	

AK

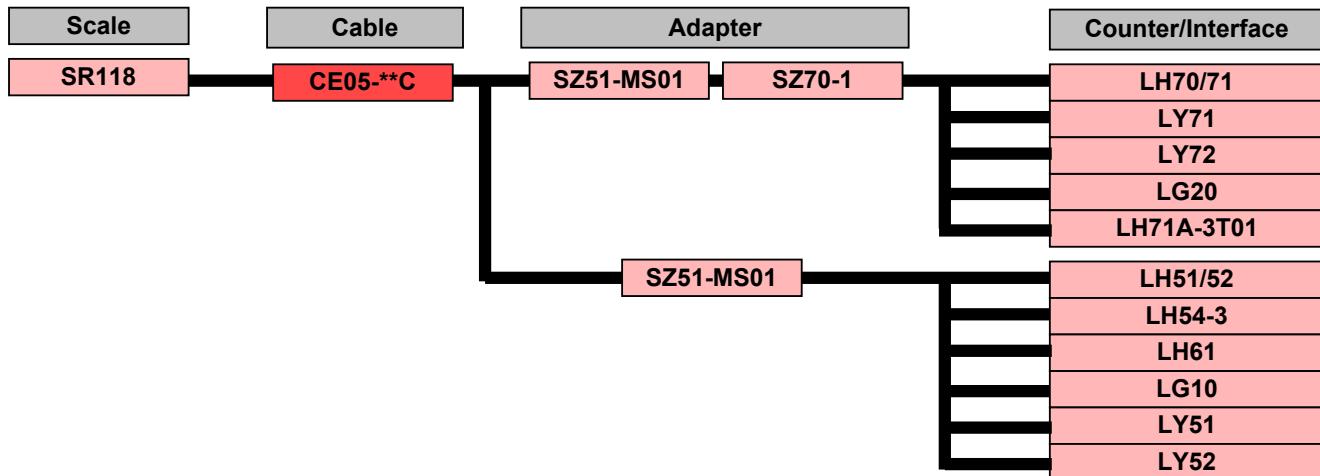
AK-**C SERIES



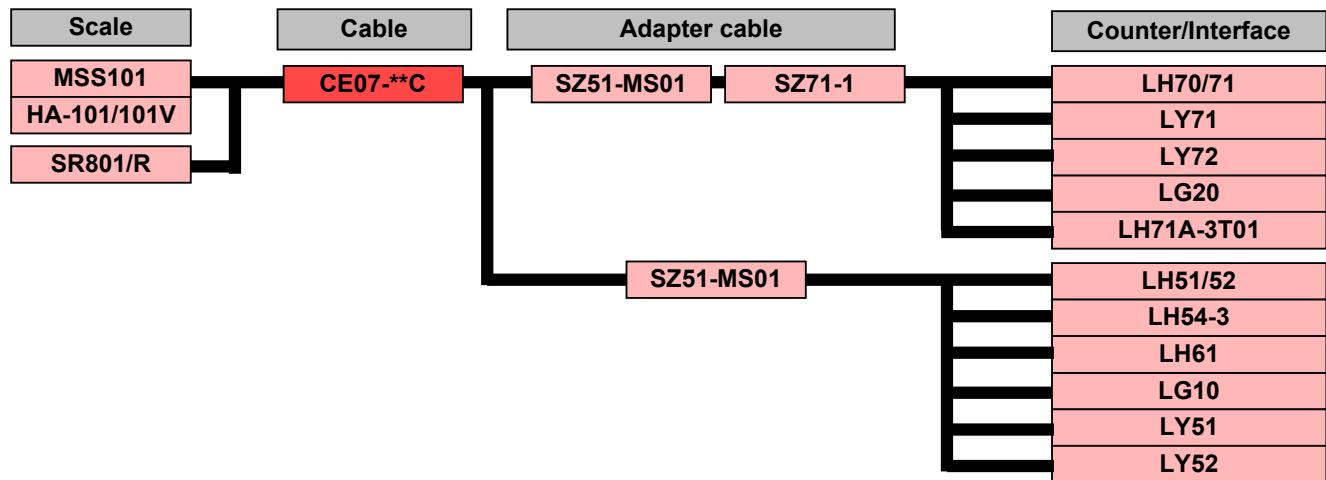
Product code	Product	Type	SRP
97921085	AK2-10C	Adapter cable 10m with Hirose 7P/Sub-D	
97991267	AK2-LA03N	Adapter cable 3m with Hirose 7P/Sub-D	
97921091	AK3-05CR	AK3-05CR Connecting cable	

CE

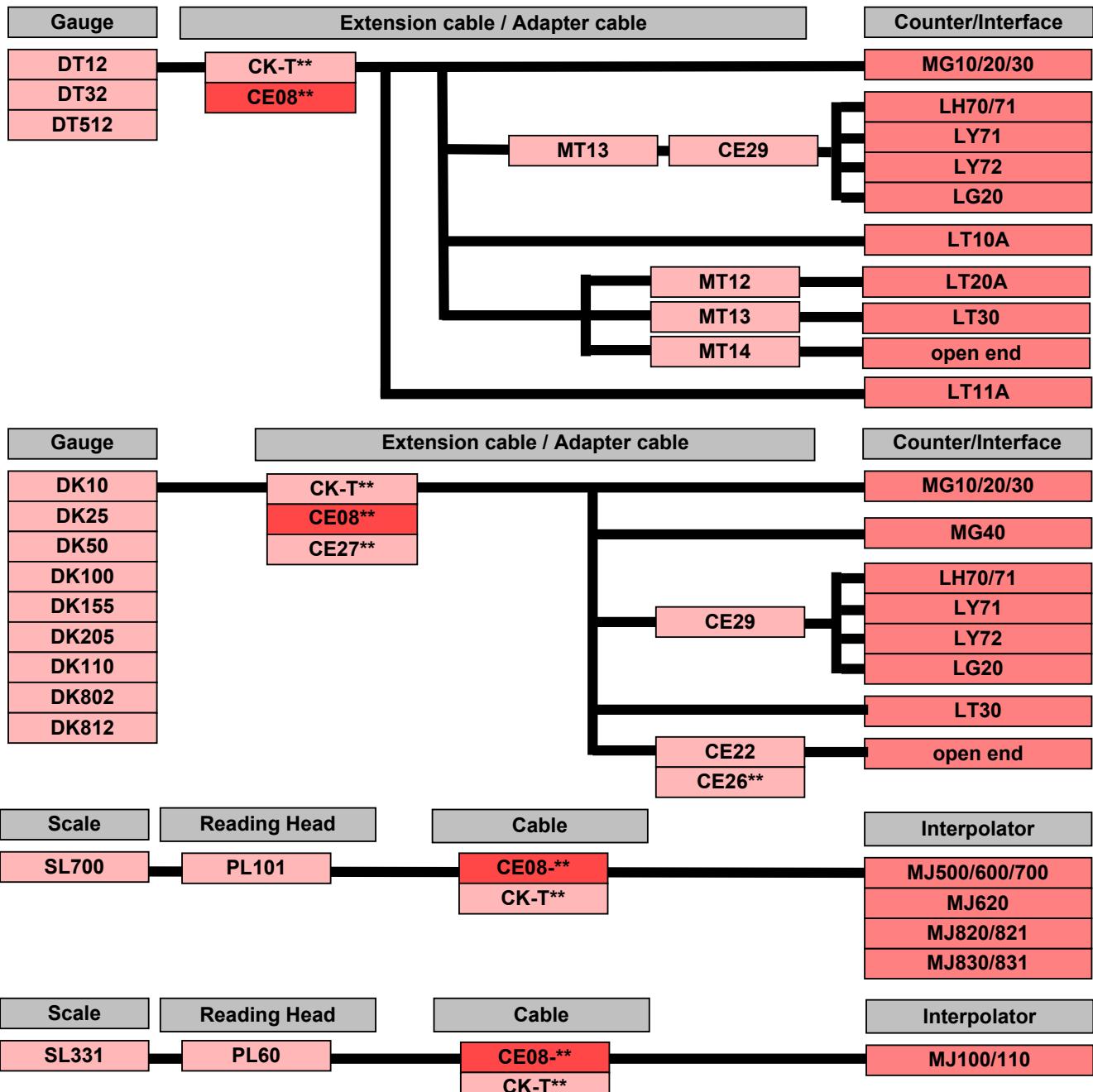
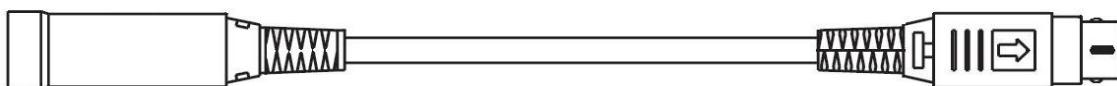
CE05-**C SERIES



Product code	Product	Model	SRP
97952301	CE05-3C	Cable 3m	
97952302	CE05-5C	Cable 5m	

CE**CE07-** SERIES**

Product code	Product	Model	SRP
97953901	CE07-3C	Cable 3m	
97953902	CE07-5C	Cable 5m	
97953903	CE07-10C	Cable 10m	
97953904	CE07-15C	Cable 15m	



Product code	Product	Model	SRP
97958805	CE08-1	Extension cable 1m (It is not suitable to use of moving parts)	
97958801	CE08-3	Extension cable 3m (It is not suitable to use of moving parts)	
97958802	CE08-5	Extension cable 5m (It is not suitable to use of moving parts)	
97958803	CE08-10	Extension cable 10m (It is not suitable to use of moving parts)	
97958804	CE08-15	Extension cable 15m (It is not suitable to use of moving parts)	



Magneswitch

Extension Cable

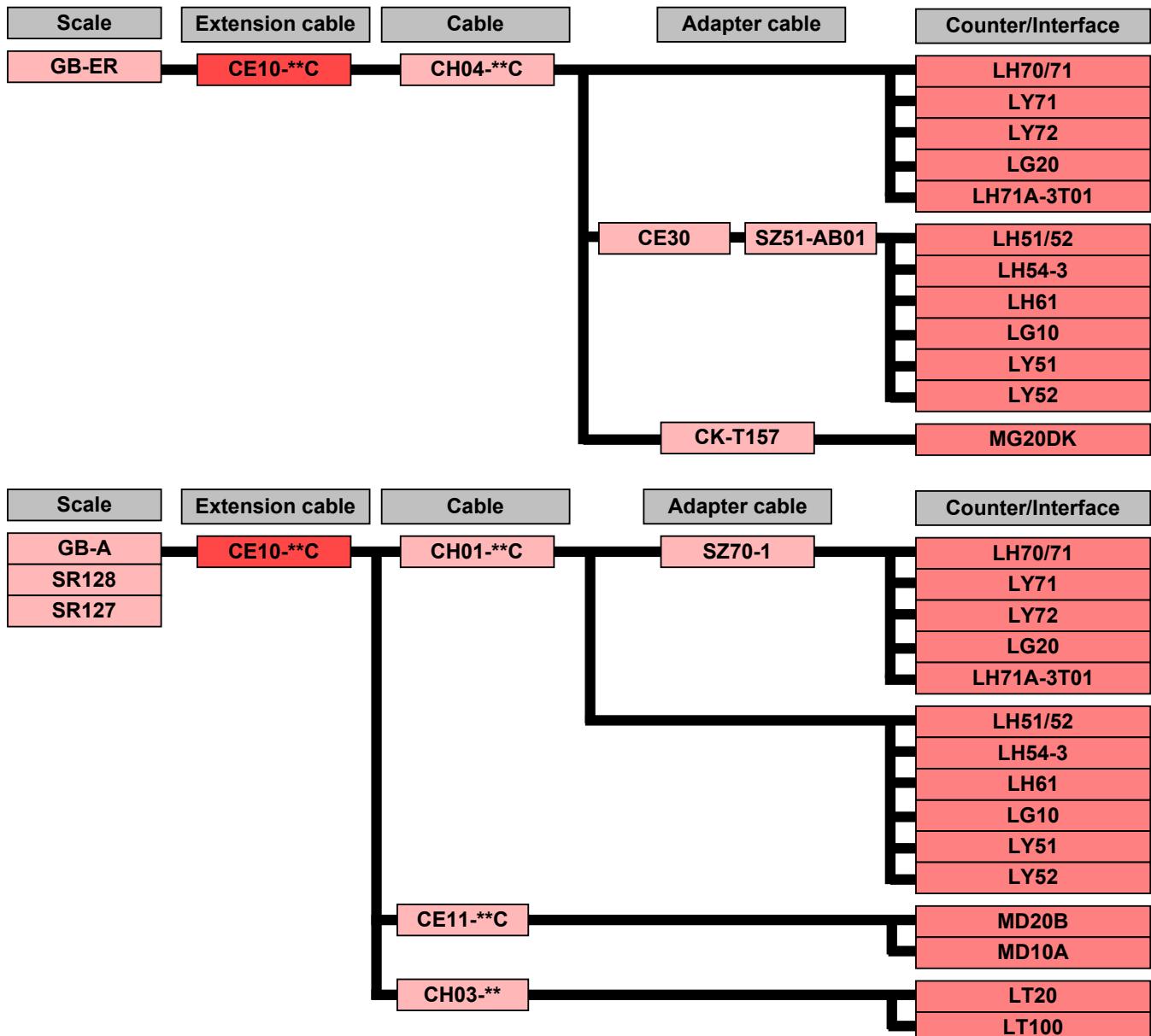
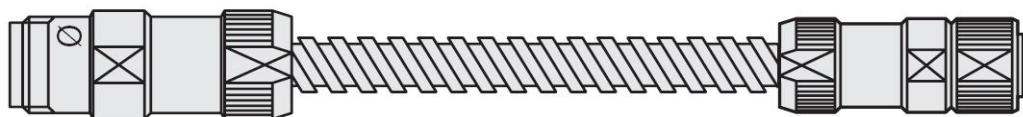
Interpolator

SET-P16

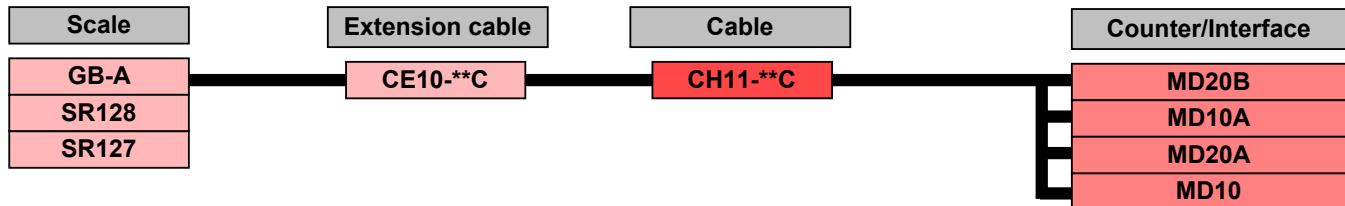
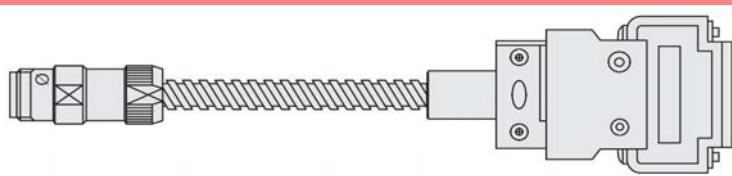
CE09-**

MD20B

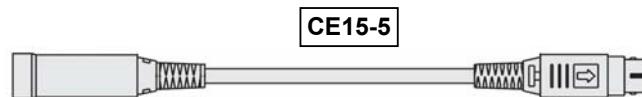
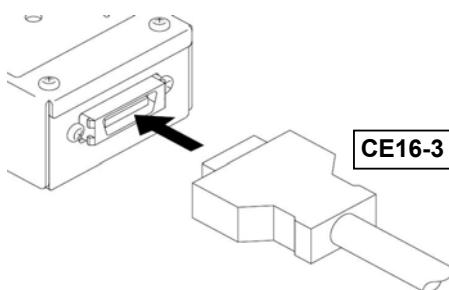
Product code	Product	Model	SRP
97958901	CE09-03	Extension cable 3m for Set-P16	
97958902	CE09-05	Extension cable 5m for Set-P16	
97958903	CE09-10	Extension cable 10m for Set-P16	
97958904	CE09-15	Extension cable 15m for Set-P16	



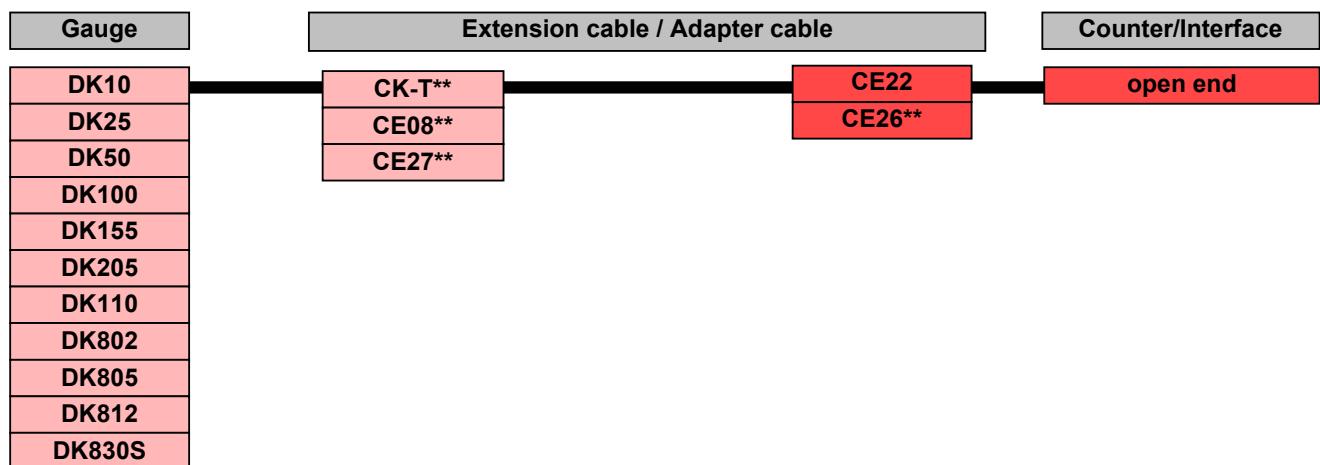
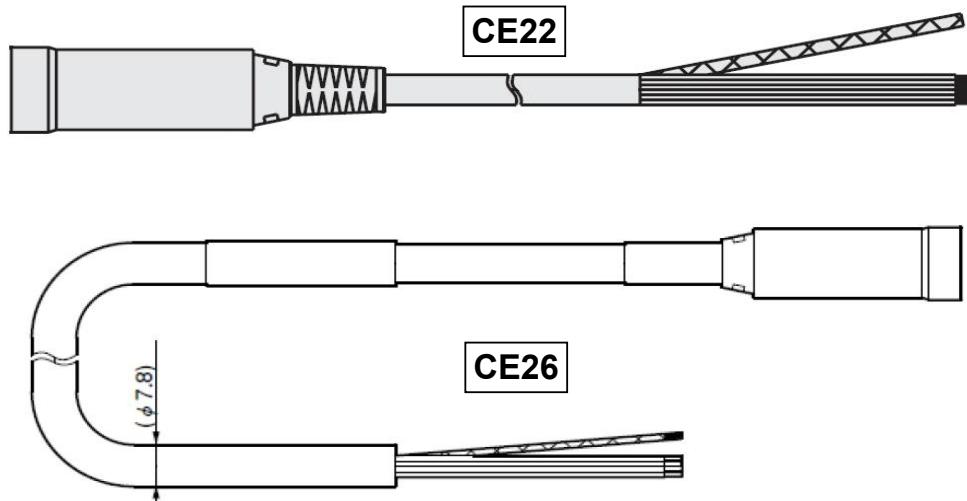
Product code	Product	Model	SRP
97966101	CE10-01C	Extension cable 1m	
97966102	CE10-03C	Extension cable 3m	
97966103	CE10-05C	Extension cable 5m	
97966104	CE10-10C	Extension cable 10m	

CE**CE11-**C SERIES**

Product code	Product	Model	SRP
97968101	CE11-03C	Cable 3m	
97968102	CE11-05C	Cable 5m	
97968103	CE11-10C	Cable 10m	
97968104	CE11-15C	Cable 15m	

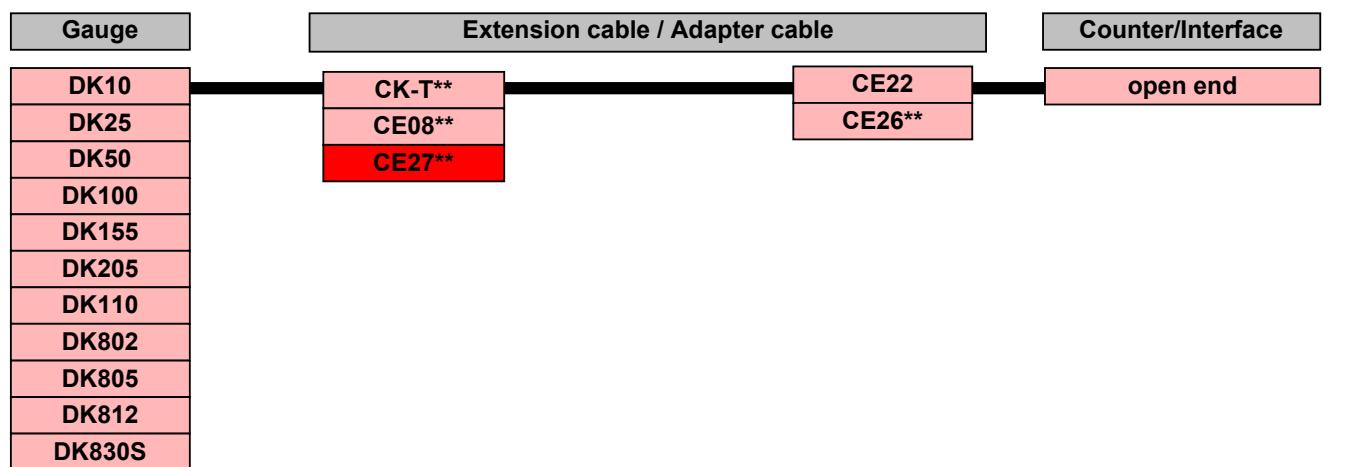
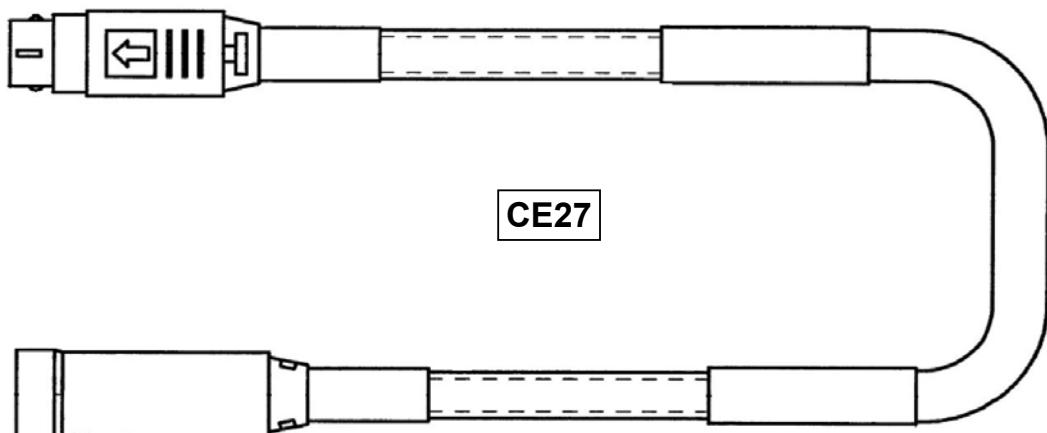
CE**CE15 / C16 SERIES**

Product code	Product	Model	SRP
97977248	CE15-5	Extension cable 5m for SET-P16	
97977251	CE16-3	Honda connector with 3m open end cable for MJ and PL8*	

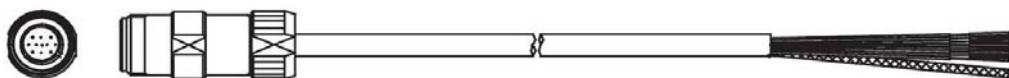


Product code	Product	Model	SRP
97928116	CE22-01	Extension cable with open end (1m)	
97928117	CE22-03	Extension cable with open end (3m)	
97928118	CE22-05	Extension cable with open end (5m)	
97928119	CE22-10	Extension cable with open end (10m)	

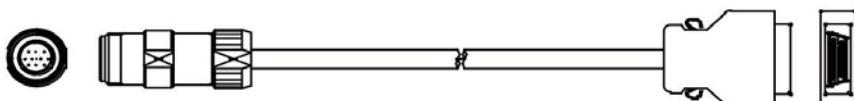
Product code	Product	Model
97931990	CE26-01	Thick extension cable with open end (1m) (low impedance)
97931991	CE26-03	Thick extension cable with open end (3m) (low impedance)
97931992	CE26-05	Thick extension cable with open end (5m) (low impedance)
97931993	CE26-10	Thick extension cable with open end (10m) (low impedance)



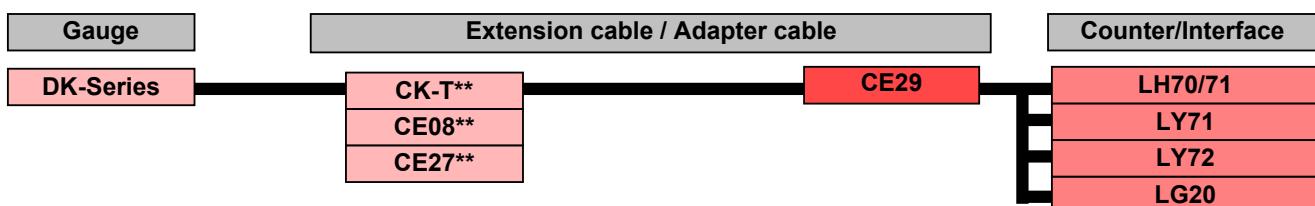
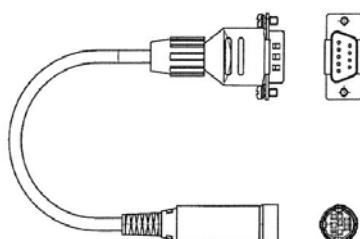
Product code	Product	Model	SRP
97931994	CE27-01	Thick extension cable (1m) (low impedance)	
97931995	CE27-03	Thick extension cable (3m) (low impedance)	
97931996	CE27-05	Thick extension cable (5m) (low impedance)	
97931997	CE27-10	Thick extension cable (10m) (low impedance)	

CE**CE28-** SERIES**

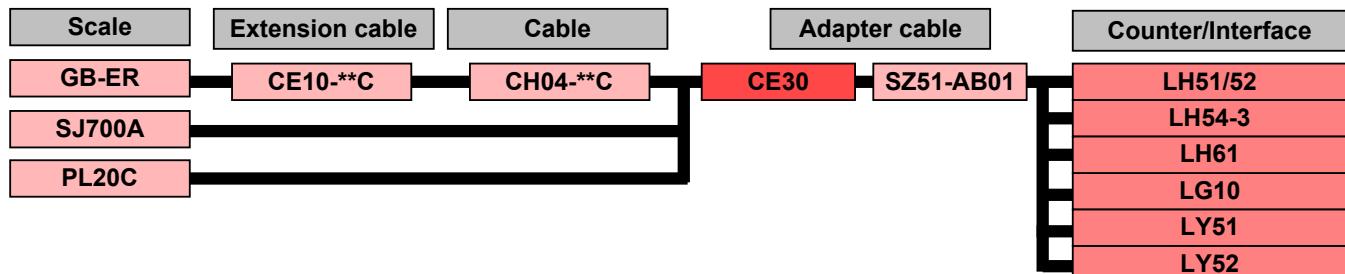
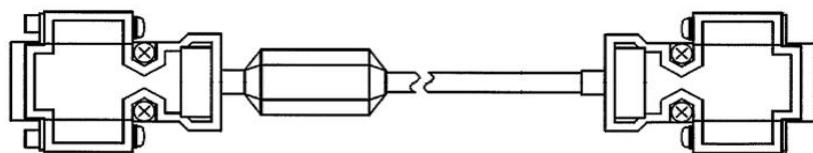
Product code	Product	Model	SRP
97928791	CE28-030C	Cable for RU74 (3m armored with open end)	
97928749	CE28-030N	Cable for RU74 (3m non-armored with open end)	



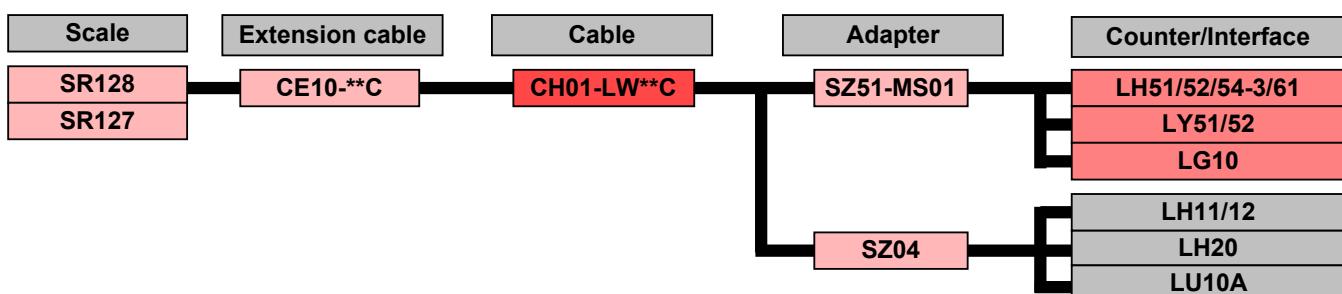
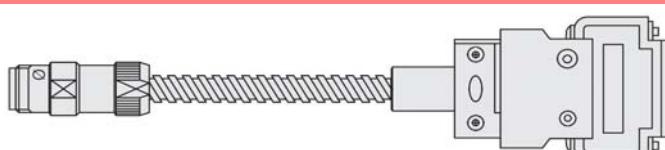
Product code	Product	Model	SRP
97949027	CE28-020NF	Cable for RU77 to connect to Fanuc Controller 2m	
97948642	CE28-030NF	Cable for RU77 to connect to Fanuc Controller 3m	
97948612	CE28-050NF	Cable for RU77 to connect to Fanuc Controller 5m	
97949387	CE28-100NF	Cable for RU77 to connect to Fanuc Controller 10m	

CE**CE29-** SERIES**

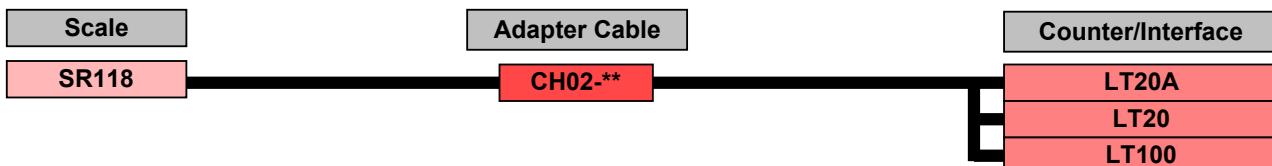
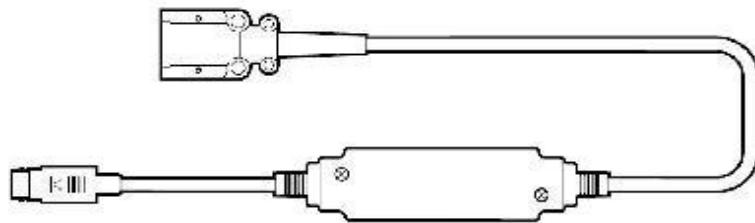
Product code	Product	Model	SRP
97928697	CE29-01	Adapter cable 1m (DK to LY71/72 LH70 series)	
97928698	CE29-03	Adapter cable 3m (DK to LY71/72 LH70 series)	
97928699	CE29-05	Adapter cable 5m (DK to LY71/72 LH70 series)	
97928700	CE29-10	Adapter cable 10m (DK to LY71/72 LH70 series)	



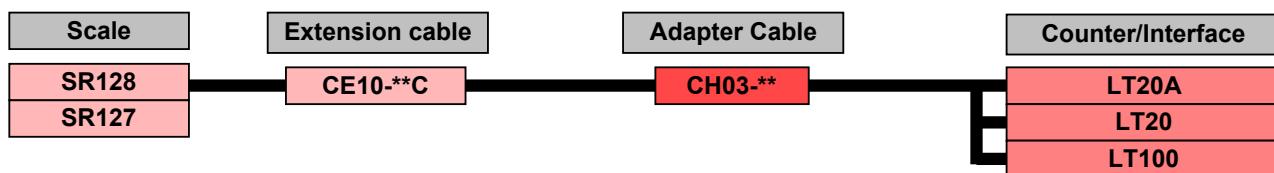
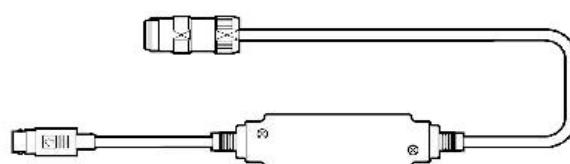
Product code	Product	Model	SRP
97928895	CE30	Adapter cable	



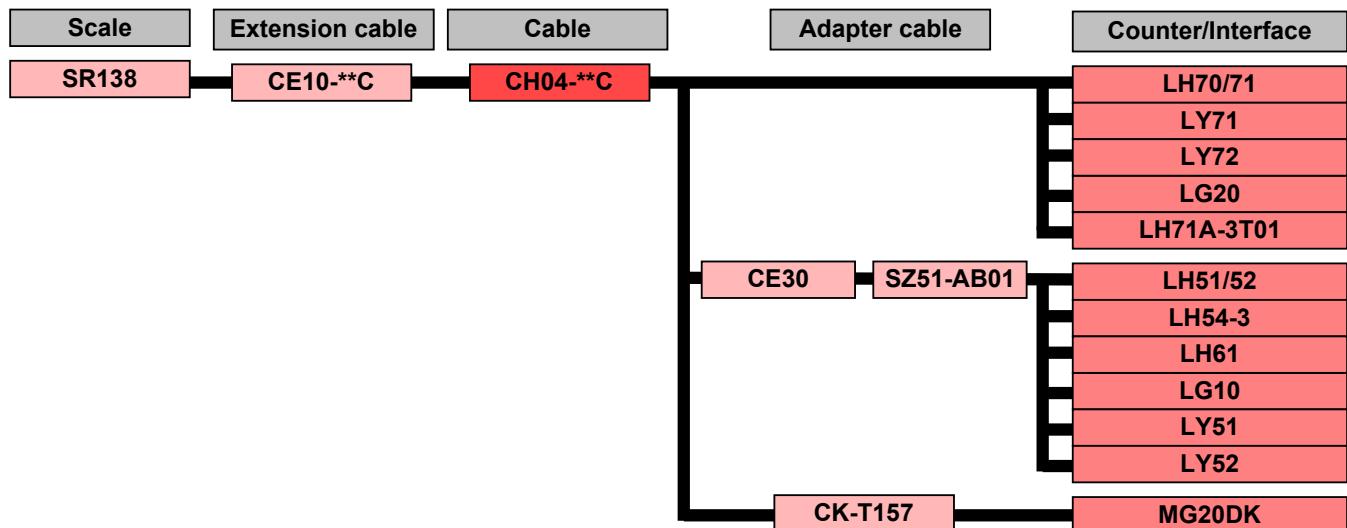
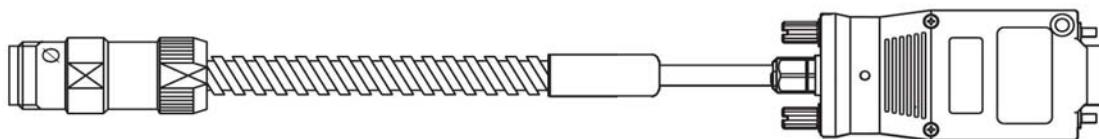
Product code	Product	Model	SRP
97991169	CH01-LW03C	Cable 3m with HA31A	
97991170	CH01-LW05C	Cable 5m with HA31A	
97991171	CH01-LW10C	Cable 10m with HA31A	

CH**CH02-** SERIES**

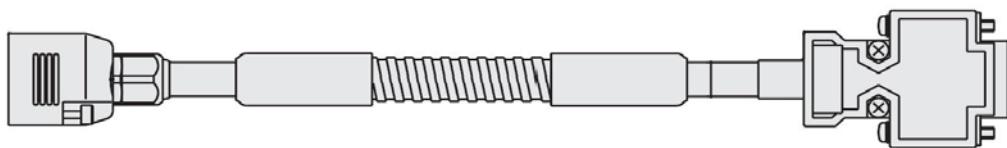
Product code	Product	Model	SRP
97968601	CH02-01	Cable 1m (SR118 to LT)	
97968602	CH02-03	Cable 3m (SR118 to LT)	
97968603	CH02-05	Cable 5m (SR118 to LT)	

CH**CH03-** SERIES**

Product code	Product	Model	SRP
97968701	CH03-01	Cable 1m (SR128/127 to LT)	
97968702	CH03-03	Cable 3m (SR128/127 to LT)	
97968703	CH03-05	Cable 5m (SR128/127 to LT)	

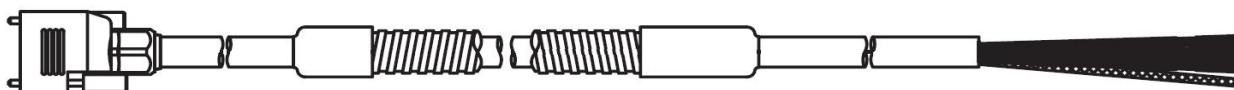


Product code	Product	Model	SRP
97928564	CE04-03C	Cable 3m; armored for SR138	
97938706	CE04-05CT01	Cable 5m; armored for SR138	



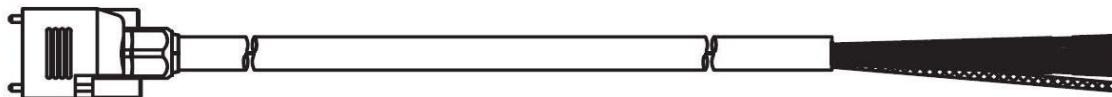
Product code	Product	Type	SRP
97950946	CH33-03CPD	3m cable / armor / PVC / Sub-D 9 pin	
97950956	CH33-05CPD	5m cable / armor / PVC / Sub-D 9 pin	
97950957	CH33-10CPD	10m cable / armor / PVC / Sub-D 9 pin	
97950958	CH33-15CPD	15m cable / armor / PVC / Sub-D 9 pin	

97950959	CH33-03CED	3m cable / armor / PU / Sub-D 9 pin	
97950960	CH33-05CED	5m cable / armor / PU / Sub-D 9 pin	
97950961	CH33-10CED	10m cable / armor / PU / Sub-D 9 pin	
97950962	CH33-15CED	15m cable / armor / PU / Sub-D 9 pin	



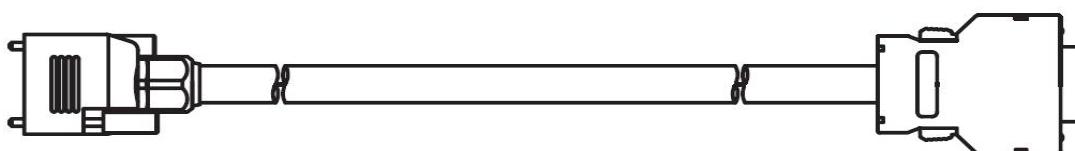
97978236	CH33-03CP	3m cable / armor / PVC / open end	
97978237	CH33-05CP	5m cable / armor / PVC / open end	
97978238	CH33-10CP	10m cable / armor / PVC / open end	
97978239	CH33-15CP	15m cable / armor / PVC / open end	
97950479	CH33-20CP	20m cable / armor / PVC / open end	

97978240	CH33-03CE	3m cable / armor / PU / open end	
97978241	CH33-05CE	5m cable / armor / PU / open end	
97978242	CH33-10CE	10m cable / armor / PU / open end	
97978243	CH33-15CE	15m cable / armor / PU / open end	

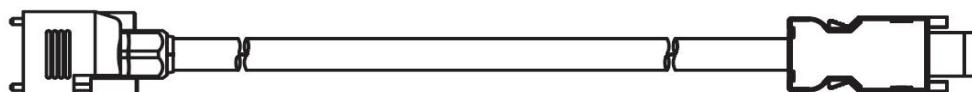


Product code	Product	Type	SRP
97950463	CH33-01NP	1m cable / PVC / open end	
97948399	CH33-02NP	2m cable / PVC / open end	
97950280	CH33-03NP	3m cable / PVC / open end	
97950369	CH33-05NP	5m cable / PVC / open end	
97950481	CH33-10NP	10m cable / PVC / open end	
97950529	CH33-15NP	15m cable / PVC / open end	

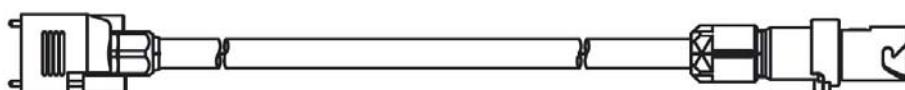
97950627	CH33-03NE	3m cable / PU / open end	
97950461	CH33-05NE	5m cable / PU / open end	
97950798	CH33-10NE	10m cable / PU / open end	



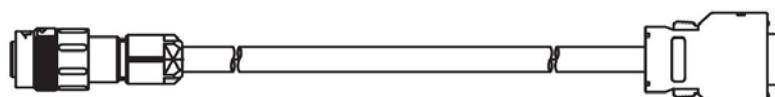
Product code	Product	Type	SRP
97948368	CH33-03NEF	PU cable (3m) with Fanuc connector	
97948366	CH33-05NEF	PU cable (5m) with Fanuc connector	
97949275	CH33-06NEF	PU cable (6m) with Fanuc connector	
97949276	CH33-09NEF	PU cable (9m) with Fanuc connector	
97948334	CH33-10NEF	PU cable (10m) with Fanuc connector	
97948246	CH33-15NEF	PU cable (15m) with Fanuc connector	
97948811	CH33-03NPF	PVC cable (3m) with Fanuc connector	
97948317	CH33-05NPF	PVC cable (5m) with Fanuc connector	
97948437	CH33-10NPF	PVC cable (10m) with Fanuc connector	
97948636	CH33-12NPF	PVC cable (12m) with Fanuc connector	
97948439	CH33-18NPF	PVC cable (18m) with Fanuc connector	
97948958	CH33-24NPF	PVC cable (24m) with Fanuc connector	



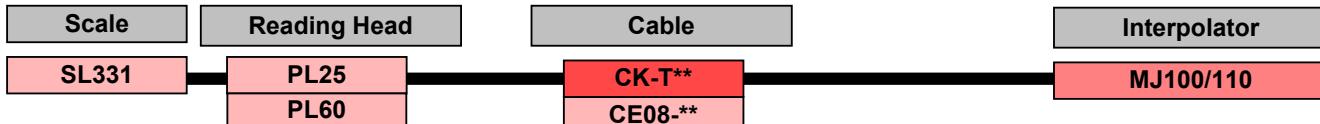
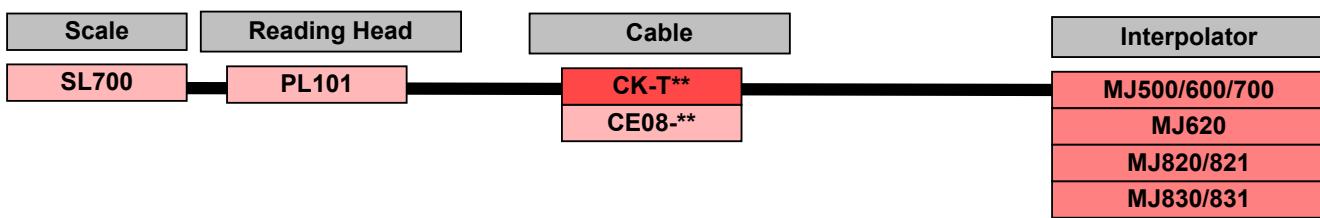
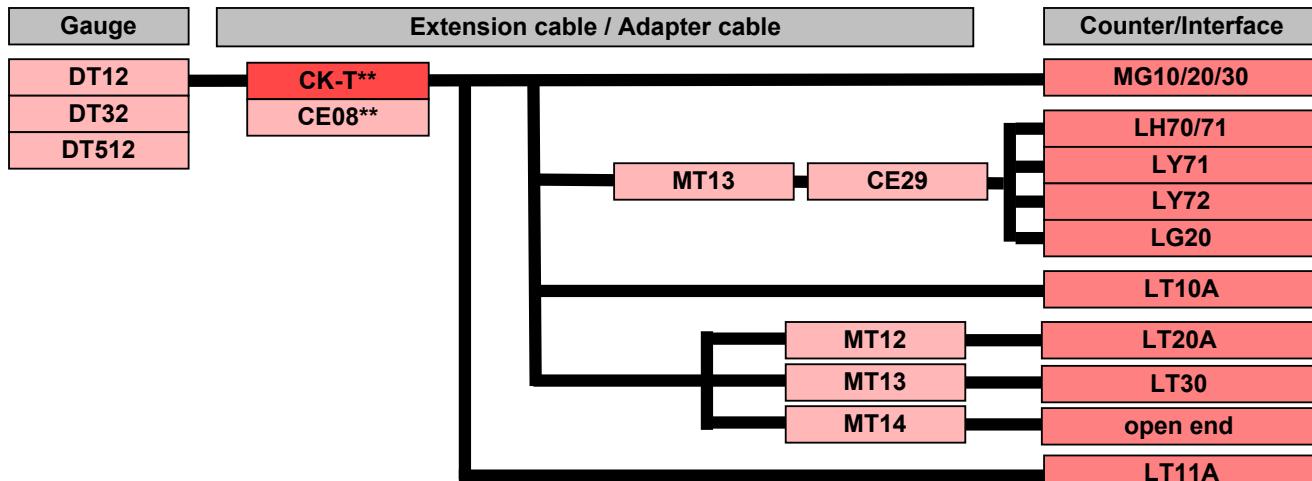
Product code	Product	Type	SRP
97948291	CH33-05NPG	PVC cable (5m) with Panasonic / Yaskawa connector	



Product code	Product	Type	SRP
97948533	CH33-03NPK	PVC cable (3m) ; Scale side with coupling connector	
97948655	CH33-06NPK	PVC cable (6m) ; Scale side with coupling connector	
97948475	CH33-09NPK	PVC cable (9m) ; Scale side with coupling connector	
97948656	CH33-15NPK	PVC cable (15m) ; Scale side with coupling connector	



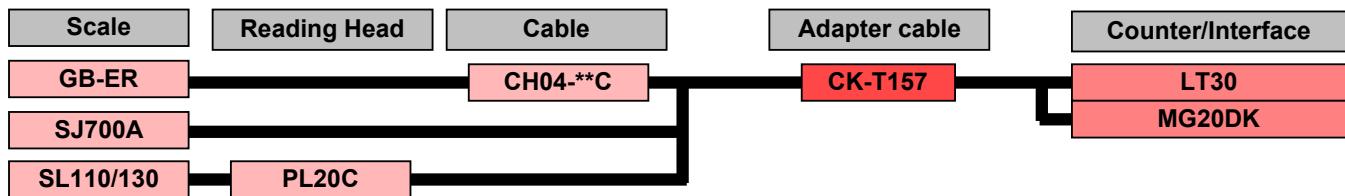
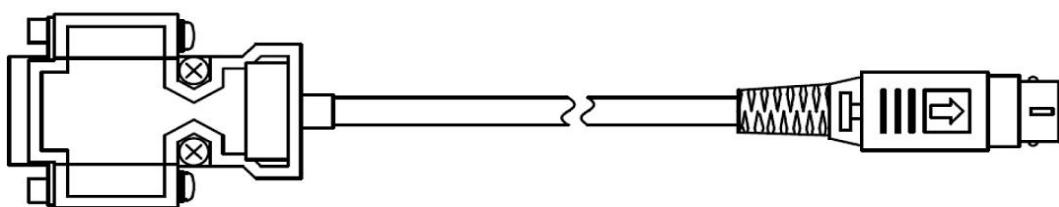
Product code	Product	Type	SRP
97948478	CH33-06NPQA	PVC cable (6m) Fanuc Controller side with coupling connector	
97948657	CH33-09NPQA	PVC cable (9m) Fanuc Controller side with coupling connector	
97948611	CH33-12NPMA	PVC cable (12m) Mitsubishi Controller side with coupling connector	



Product code	Product	Model	SRP
97924996	CK-T12	Extension cable (1m); High-flex cable	
97924997	CK-T13	Extension cable (3m); High-flex cable	
97924998	CK-T14	Extension cable (5m); High-flex cable	
97924999	CK-T15	Extension cable (10m); High-flex cable	
97930000	CK-T16	Extension cable (15m); High-flex cable	

CK

CK-T157 SERIES



Product code	Product	Model	SRP
97938714	CK-T157	Adapter cable (0.3m D-Sub 9Pin female to Mini Din 8pin)	

DZ

DZ*** SERIES

DZ250

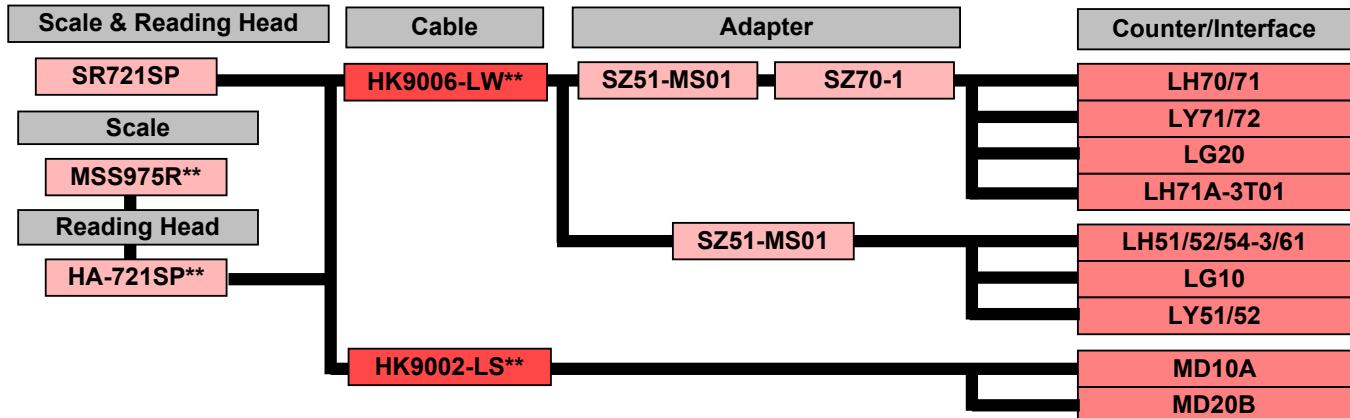
Product code	Product	Model	SRP
97922029	DZ250	RS232C link cable; open end; D-SUB 25 male	

DZ251

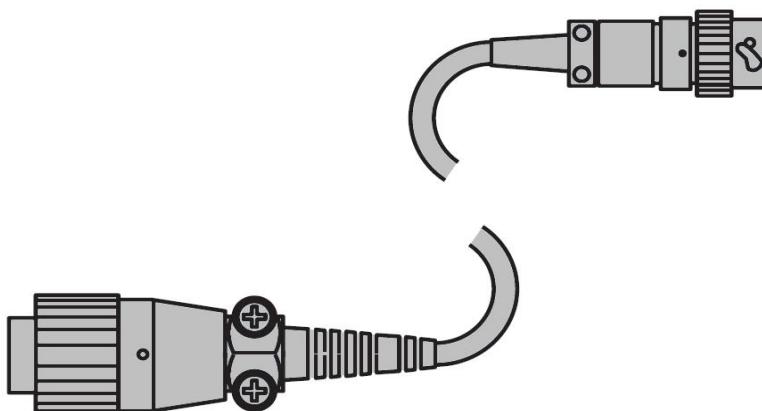
Product code	Product	Model	SRP
97920331	DZ251	RS232C link cable; open end; D-SUB 25 female	

DZ252

Product code	Product	Model	SRP
97920357	DZ252	RS232C link cable for LT/LY/MG; D-SUB 9 female mounted	



Product code	Product	Type	SRP
97990294	HK9006-LS03C	3m armored cable ((Hirose 8P/Sub-D15))	
97990296	HK9006-LS10C	10m armored cable ((Hirose 8P/Sub-D15))	
97990112	HK9006-LW03C	3m armored cable ((Hirose 8P/HA-31A))	
97991247	HK9006-LW03N	3m not armored cable (Hirose 8P/HA-31A)	



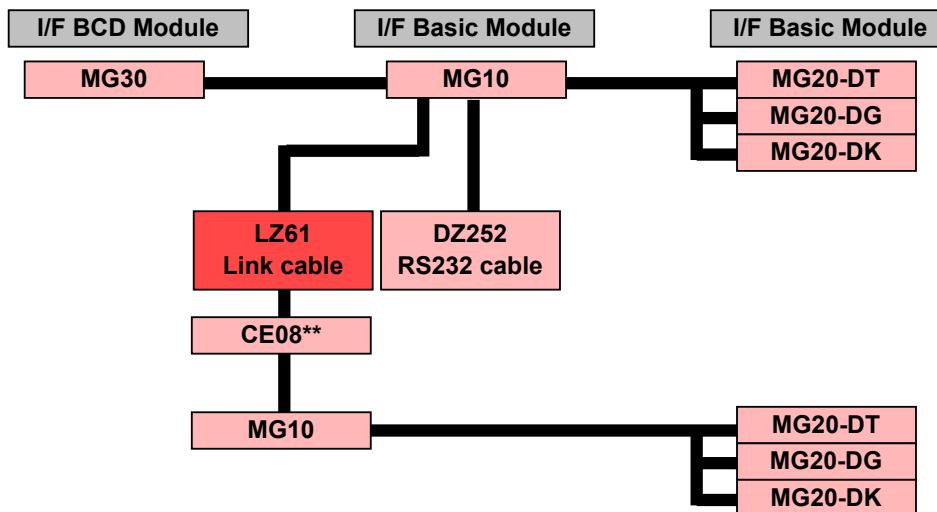
Product code	Product	Model	SRP
97951101	LZ40-3	3m cable for touch sensor TS1 / TS-3	
97951102	LZ40-5	5m cable for touch sensor TS1 / TS-3	
97951103	LZ40-10	10m cable for touch sensor TS1 / TS-3	

LZ**LZ** SERIES****LZ52**

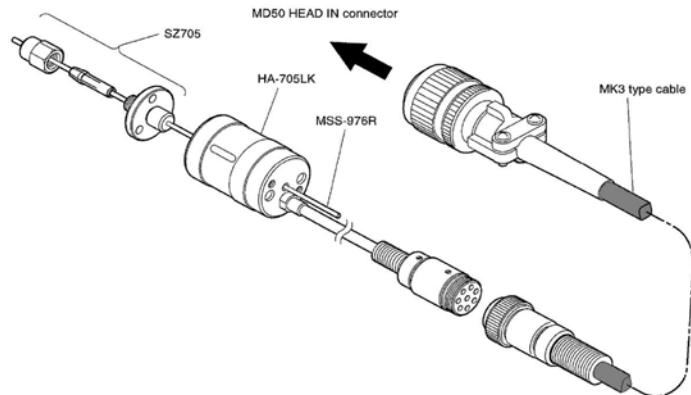
Product code	Product	Model	SRP
97968201	LZ52	Link cable for LY51/52 through RS-232C (Cable length 300mm)	

LZ54

Product code	Product	Model	SRP
97977495	LZ54	I/O cable for LY51/52	

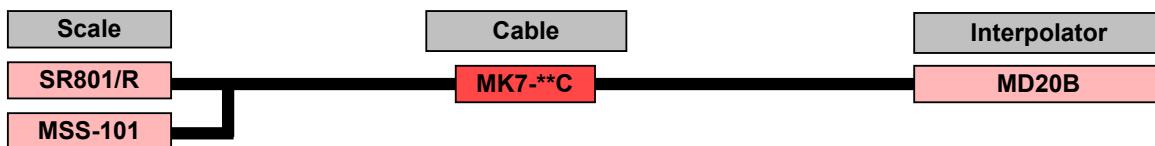
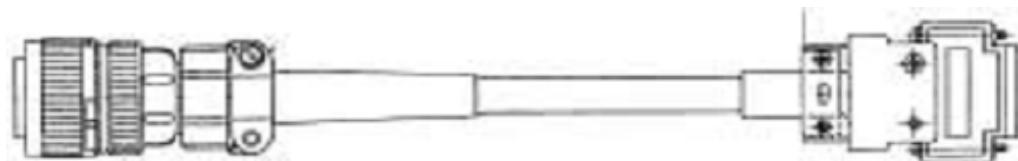
LZ**LZ61 SERIES**

Product code	Product	Model	SRP
97973401	LZ61	Link cable between MG10 modules (1m)	



Rolling Mill cable including connector for HA-705LK and MD50

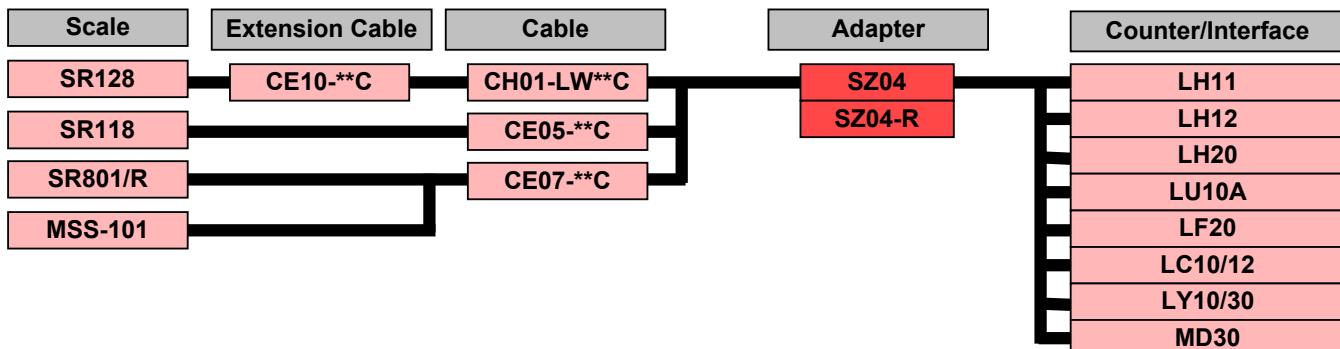
Product code	Product	Model	SRP
97921066	MK3-30	Cable (30m)	
97921093	MK3-50	Cable (50m)	
97921040	MK3-100	Cable (100m)	
97921067	MK3-120	Cable (120m)	
97921068	MK3-135	Cable (135m)	
97921041	MK3-150	Cable (150m)	



Product code	Product	Model	SRP
97921075	MK7-03C	Cable 3m (MSS-101/SR801 to MD20B)	
97921076	MK7-05C	Cable 5m (MSS-101/SR801 to MD20B)	
97921077	MK7-10C	Cable 10m (MSS-101/SR801 to MD20B)	
97921078	MK7-15C	Cable 15m (MSS-101/SR801 to MD20B)	

SZ

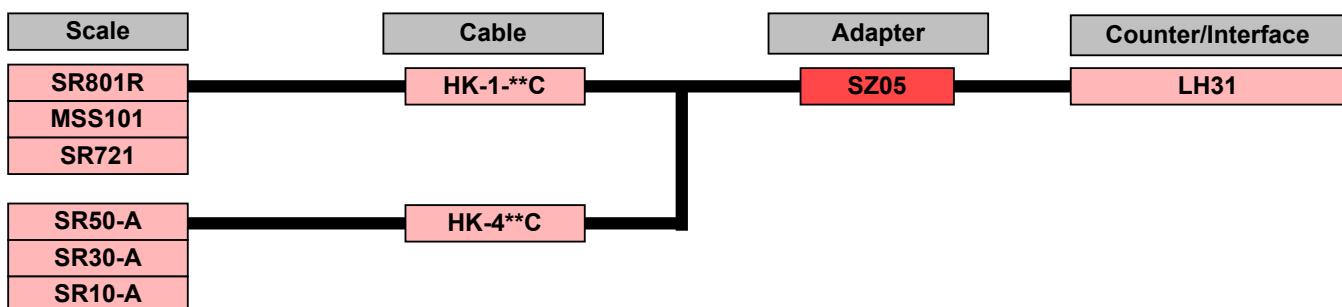
SZ04 / SZ04R SERIES



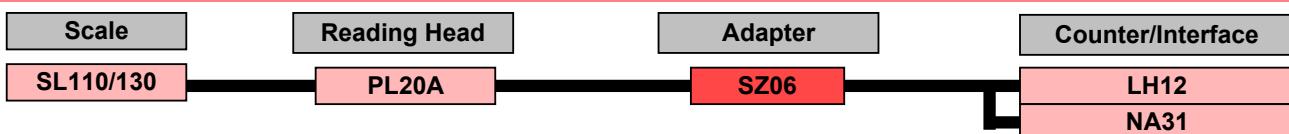
Product code	Product	Model	SRP
97951801	SZ04	Adaptor	
97953601	SZ04-R	Adaptor for external reference point	

SZ

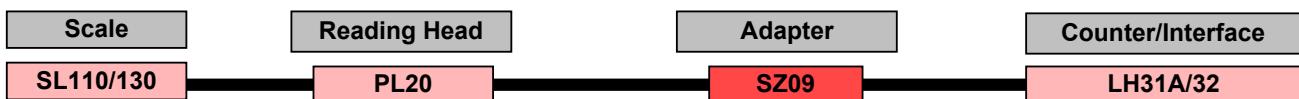
SZ05 SERIES



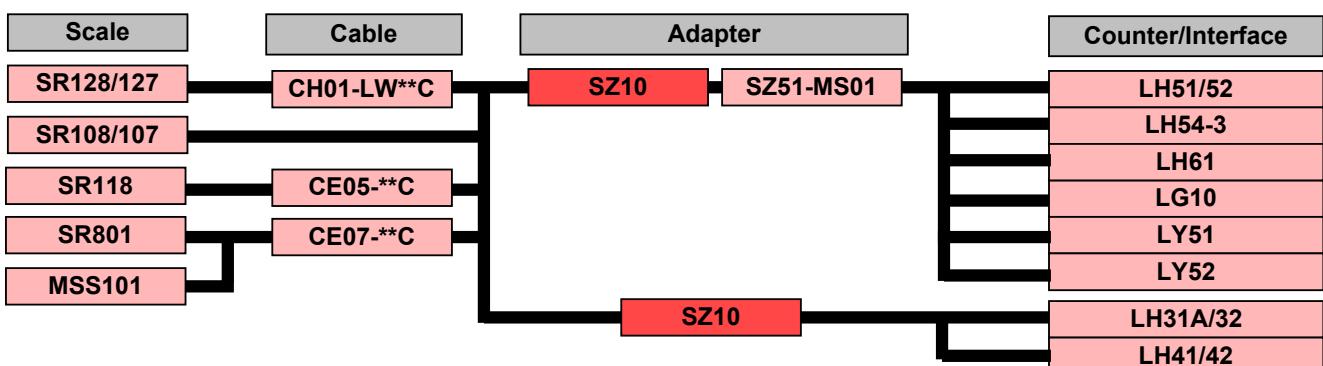
Product code	Product	Model	SRP
97954401	SZ05	Adaptor	

SZ**SZ70-1 SERIES**

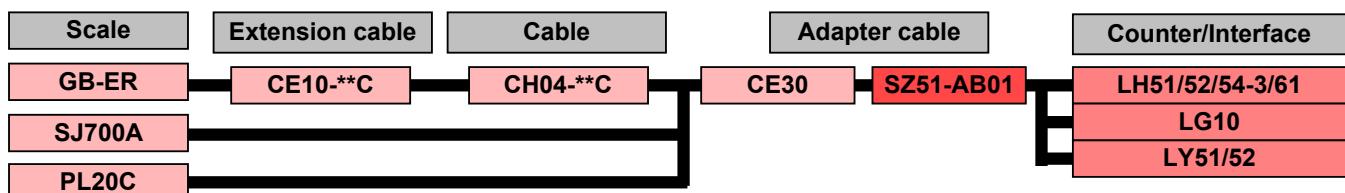
Product code	Product	Model	SRP
97954501	SZ06	Adaptor	

SZ**SZ09 SERIES**

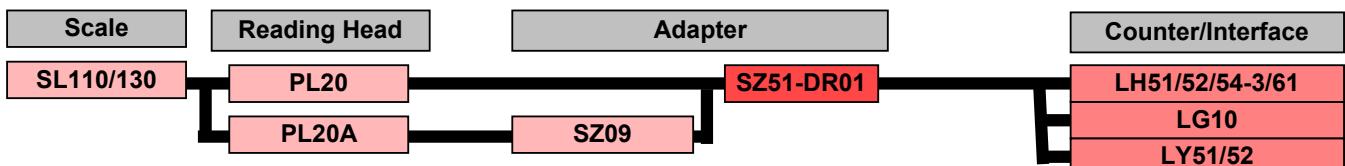
Product code	Product	Model	SRP
97954601	SZ09	Adaptor	

SZ**SZ10 SERIES**

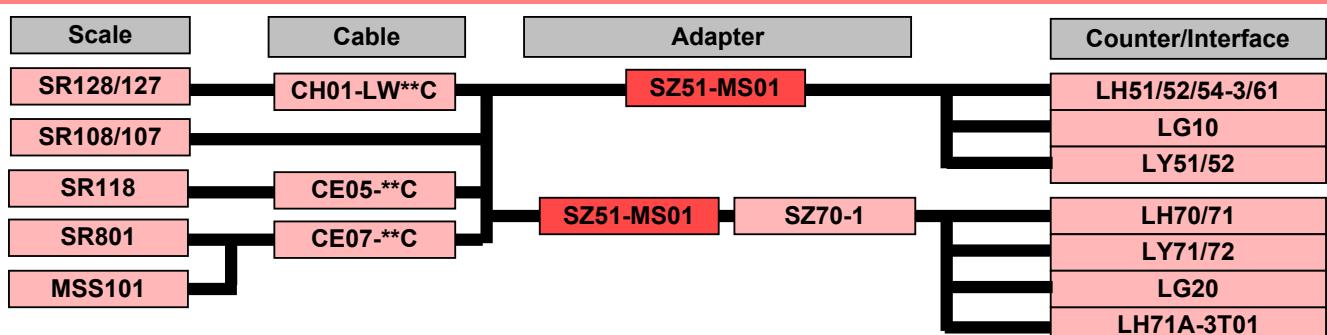
Product code	Product	Model	SRP
97962101	SZ10	Adapter external zero point sensor (PH500 sensor with PG104 magnet)	

SZ**SZ51-AB01 SERIES**

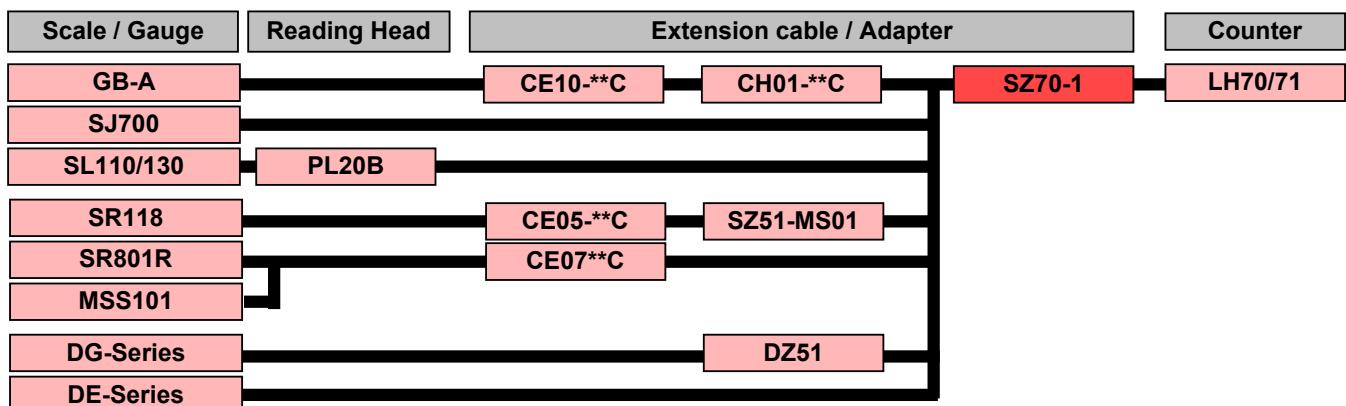
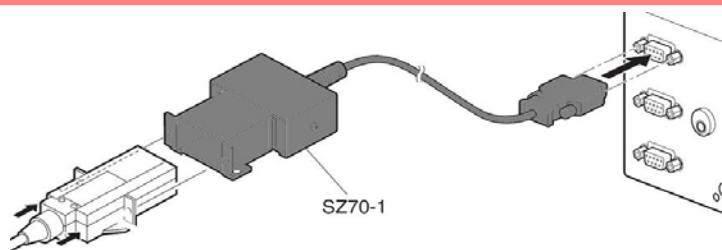
Product code	Product	Model	SRP
97930125	SZ51-AB01	Adaptor	

SZ**SZ51-DR01 SERIES**

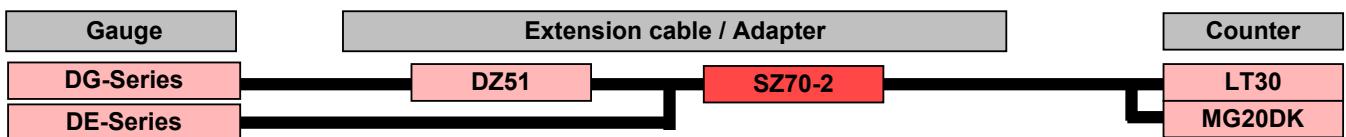
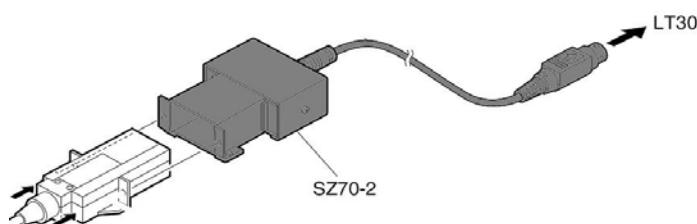
Product code	Product	Model	SRP
97967303	SZ51-DR01	Adaptor	

SZ**SZ51-MS01 SERIES**

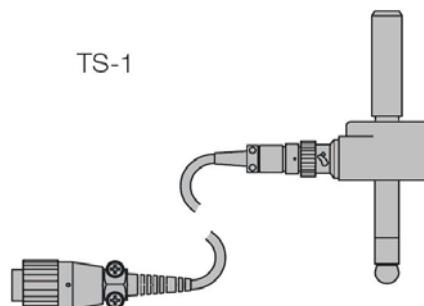
Product code	Product	Model	SRP
97967301	SZ51-MS01	Adaptor	

SZ**SZ70-1 SERIES**

Product code	Product	Model	SRP
97928115	SZ70-1	Adaptor	

SZ**SZ70-2 SERIES**

Product code	Product	Model	SRP
97928726	SZ70-2	Adaptor	



Product code	Product	Model	SRP
97923020	TS-1	Touch sensor	

Product code	Product	Touch sensors with cable to: LH31/32 LH51/52/54/61 LH71-3T01	
97953501	TS-103A	Touch sensor TS-1 with LZ40-3 cable	
97953502	TS-105A	Touch sensor TS-1 with LZ40-5 cable	
97953503	TS-110A	Touch sensor TS-1 with LZ40-10 cable	

Product code	Product	Cable for TS-* connect to: LH31/32 LH51/52/54 LH61 LH71-3T01	
97951101	LZ40-3	Cable 3m	
97951102	LZ40-5	Cable 5m	
97951103	LZ40-10	Cable 10m	

Product code	Product	Cable for TS-* for old display: LA, LF, LM or older than LH31/32	
97921042	C-3	Cable 3m	
97921043	C-5	Cable 5m	



SPEED X PRECISION

Technical & Marketing Support (Europe)

Magnescale Europe GmbH
Antoniusstrasse 14
D-73249 Wernau, Germany

Tel.: +49 (0) 7153 / 934 291 Fax: +49 (0) 7153 / 934 299
info-eu@mgscale.com
www.mgscale.com

Distribution (Europe)

YAMAZEN EUROPE GmbH
Hedelfinger Strasse 61
D-70327 Stuttgart, Germany

Tel.: +49 (0) 711/90115-0
FAX: +49 (0) 711/90115-100
order@yamazen.de

The contents of this literature are as of March 2012

Service Support (Europe)

GeBoTech GmbH
Industriestrasse 24
D-77815 Bühl, Germany

Tel.: +49 (0) 7223 / 91249-30 Fax: +49 (0) 7223 / 91249-59
info@gebotech.de
www.gebotech.de

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