

Sensor principle		MH-C	MH-C2
Electrical data			
Measuring range	0	0 360	-
Indep. linearity	% of meas. range	±0.3	-
Max. hysteresis	۰	0.1	-
Resolution	bit	12	-
Max. repeatability	0	0.1	-
Sample rate fast mode	kHz	(5)	-
Sample rate slow mode	kHz	1.66	
System propagation delay fast mode	μs	(800)	-
System propagation delay slow mode	μs	4600	-
Max. temperature coefficient of the output signal	ppm/K	50	-
MTTFd / MTBF	years	668 / 668	-
Power supply voltage	VDC	5 (±10%)	-
Current consump, without load (typ.) fast mode	mA	(14)	-
Current consump. without load (typ.) slow mode	mA	9	-
Min. ohmic load at output	kOhm	10	-
Max. capacitive load at output	nF	1	-
PWM frequency	Hz	855 (±20%)	-
Reverse polarity protection of power supply		yes	-
Electrical connection		Wires (3x)	_
Cross section of single wires	mm²	0.25 (AWG24)	_
Redundancy feasible	111111	yes	_
Electrical connection redundant		Ribbon cable 6pole	-
Cross section of single wires		0.09 (AWG28)	_
		(,	
Mechanical data			
Mechanical range	0	360 (continuous)	-
Protection class		IP54 / IP65	-
Max. starting torque at spec. protection class	Ncm	0.5 / 3	-
Max. rotating speed	rpm	6000	-
Min. life	movements	360 Mio.	-
Max. permitted axial shaft load	N	5	-
Max. permitted radial shaft load	N	5	-
Operating & Storage temperature (with wires)	°C	-40 +125	-
Operating & Storage temperature (with ribbon cable)	°C	-40 +105	-
EN 60068-2-6 Vibration (Amax = 0.75mm, f = 52000Hz)	g	20	-
EN 60068-2-27 Shock	g	50	-
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Standards			
EN 55022 class B, Emission radiated (30230MHz)	dB(μV/m)	max. 30	-
EN 55022 class B, Emission radiated (2301000MHz)	dB(μV/m)	max. 37	-
EN 55022 class B, Emission conducted (0.150.5MHz)	dB(μV)	max. 56 46	-
EN 55022 class B, Emission conducted (0.55MHz)	dB(μV)	max. 46	-
EN 55022 class B, Emission conducted (530MHz)	dB(μV)	max. 50	-
EN 61000-4-2, ESD (contact discharge / air discharge)	kV	±4 / ±8	-
EN 61000-4-3, Immission HF radiated (801000MHz/1.42.7GI		100	-
EN 61000-4-4, Burst (on all lines)	kV	±1	-
EN 61000-4-4, Burst (of all lines)	kV	±1	_
EN 61000-4-5, Surge (illies to ground) EN 61000-4-6, Immission HF conducted (0.1580MHz)	Vemk	10	_
EN 61000-4-6, Immission HF conducted (0.1580MHz) EN 61000-4-8, Immission magnetic field (50Hz)	A/m	300	-
EN 60393-1 Insulation resistance (500VDC, 1bar, 2s)	GOhm	20	-
LIN 00000-1 IIISUIALIOIT TESISLATICE (DUUVDC, TDdT, ZS)	GOIIII	20	•

EN 60393-1 Dielectric strength (VAC, 50Hz, 1min, 1bar)

Vert-X 13 - 5V / PWM

Applications

- Servodrives
- Insetting machines
- Sewer inspection robots
- Medical applications

Features

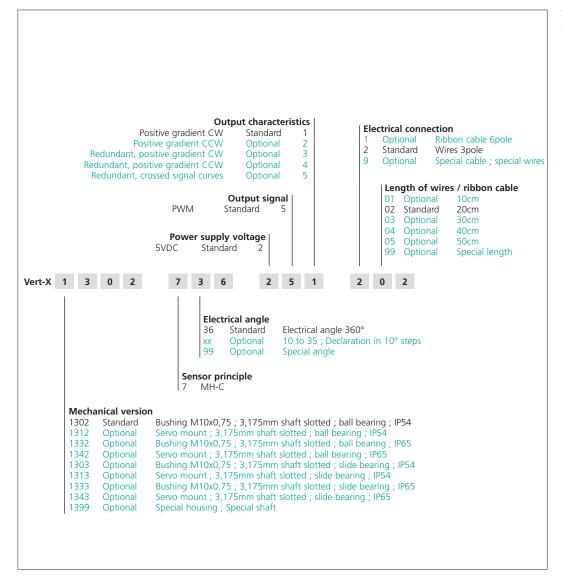
- Compact dimensions
- Contactless measuring method
- Long life
- High accuracy of measurement
- Use in cramped installation conditions
- Full resolution and accuracy at programmed electrical angle
- Full redundancy possible

Errors and omissions excepted. Subject to change without notice. State: 10.02.16





Vert-X 13 - 5V / PWM Ordering code



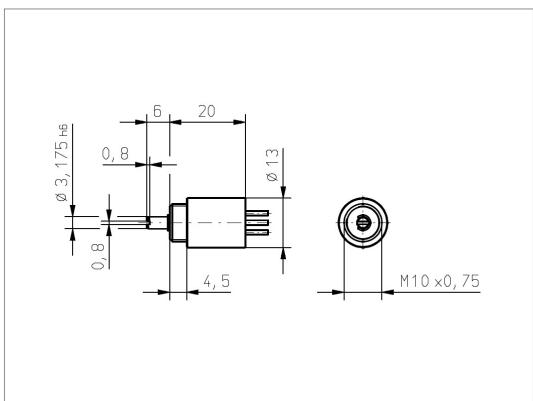
	MH-C	MH-C2
Custom shaft design	Χ	-
Custom modification of the housing	Χ	-
Custom cable / wires	Χ	-
Sample rate in fast mode	Χ	-
Switch functions TTL (max. 2)	-	-
Special characteristic curve	-	-
Special electrical angle within 30 to 360° (ex factory)	Χ	-
Electrical angle programmable (Software)	-	-
Start & end point settable / programmable (Additional wires or Software)	-	-
Sense of rotation CW/CCW settable / programmable (Additional wires or Software)	-	-
Index point settable / programmable (Additional wires or Software)	-	-
Immission magnetic field up to 1'500 A/m (Additional shielded)	Χ	-

Options (on request)

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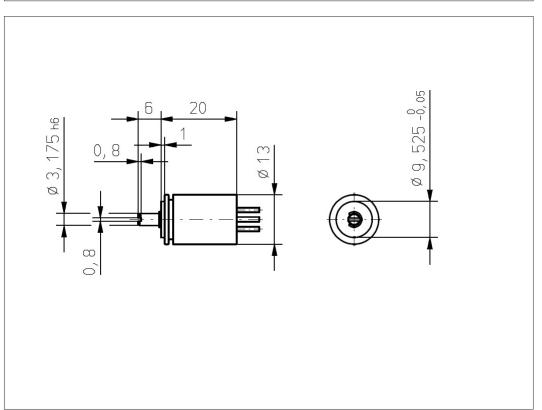




Vert-X 1302 Vert-X 1332 Vert-X 1303 Vert-X 1333

Accessories (incl.)

- 1x Nut M10x0.75 / SW13
- 1x Serrated lock washer



Vert-X 1312 Vert-X 1342 Vert-X 1313

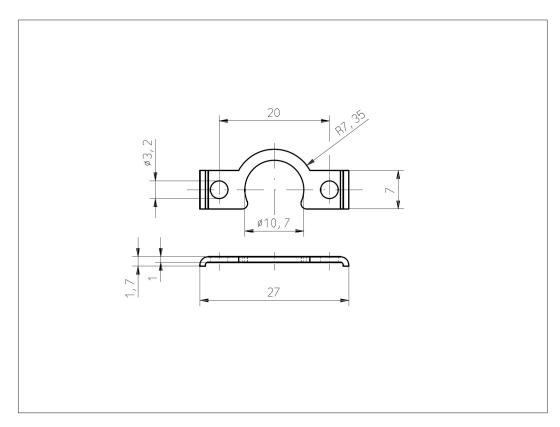
Vert-X 1343

- Accessories (incl.)1x Fixation clip
- 2x Slotted cylinder head screw M3x8

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Vert-X 1312 Vert-X 1342 Vert-X 1313 Vert-X 1343

Accessories Fixation clip

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