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Description

- Operation mode and max sensing range:
 Thru-beam: Dependent on amplifier (up to 70m)
 Diffuse proximity: Dependent on amplifier (up to 5m)
- Optional sensor monitor LED
- Wide variety of housings
- High tolerance to hostile environments
- Cable or plug connections
- Available with optional (ATEX approval



The remote sensor series, which consists of a transmitter LT and receiver LR, is made to operate in conjunction with a Telco photoelectric amplifier from the PA, MPA or PAB programmes.

The remote sensors are available in a wide range of housings, with either cable or plug connection, and may be used in thru-beam or diffuse proximity mode.

The series is available with optional power-(LR) and output-(LT) monitor LEDs for use with any Telco photoelectric amplifier which has the sensor LED drive feature incorporated.

Technical Data				
		LT	LR	
Transmitter diode		Ga Al As, (880 nm)	-	
Photo transistor		-	Silicon NPN	
Harrian material	Sensor housing	Refer to Available Types		
Housing material	Front lens	Polycarbonate		
Cable, PVC Ø 4,0 mm		2 x 0,25 mm²	1 x 0,25 mm² + shield	
Min. cable bending radius		45 mm		

Environmental Data				
Vibration		10 – 55 Hz, 0,5 mm		
Shock		30 g		
Light immunity, @ 20° incidence	101 Series 100 Series 110/120 Series	> 50 000 lux > 80 000 lux > 100 000 lux		
Temperature, operation		– 25 to +65 °C		
Temperature, storage		– 40 to +80 °C		
Sealing class		IP 67		
Approvals		((





Α١	ailable Type	s										
	Series	Optical	Connect	tion	5 m cable	15 m cable	3 pin, M8 plug	4 pin, M12 plug				
	Angle		Housing Material	Housing Type		Order R	eference					
			Debresshereste	Ø10	LT 101 AP25 5	LT 101 AP25 15	LT 101 AP25 T33	-				
ē			Polycarbonate		LT 101 TP25 5	LT 101 TP25 15	LT 101 TP25 T3 3	-				
Iransmitter			Nickel Plated Brass	M12 x 1	LT 101 TB25 5	LT 101 TB25 15	LT 101 TB25 T33	-				
ınsı		+/- 10°	Stainless Steel (V4A)		LT 101 TS25 5	LT 101 TS25 15	LT 101 TS25 T33	-				
<u>0</u>			Polyester	□ 9,5 x 11,5	LT 101 SG 5 ²³	LT 101 SG 15 ²³	LT 101 SG T33	-				
	101		ABS	Ø12,7 Snap	LT 101 S22 5 ²³	LT 101 S22 15 ²³	-	-				
	101		Deberedenste	Ø10	LR 101 AP25 5	LR 101 AP25 15	LR 101 AP25 T33	-				
			Polycarbonate		LR 101 TP25 5	LR 101 TP25 15	LR 101 TP25 T33	-				
Ne			Nickel Plated Brass	M12 x 1	LR 101 TB25 5	LR 101 TB25 15	LR 101 TB25 T33	-				
кесеілег		+/- 6°	Stainless Steel (V4A)		LR 101 TS25 5	LR 101 TS25 15	LR 101 TS25 T33	_				
ř			Polyester	□ 9,5 x 11,5	LR 101 SG 5 ²³	LR 101 SG 5 ²³	LR 101 SG T33	_				
			ABS	Ø12,7 Snap	LR 101 S22 523	LR 101 S22 523	-	_				
					<u> </u>	<u>I</u>	l					
_			5	Ø10	LT 100H AP38 5	LT 100H AP38 15	LT 100H AP38 T33	_				
			Polycarbonate		LT 100H TP38 5	LT 100H TP38 15	LT 100H TP38 T33	_				
		+/-12°	Nickel Plated Brass	M12 x 1	LT 100H TB38 5	LT 100H TB38 15	LT 100H TB38 T3 3	LT 100H TB58 J				
		(High Power)	Stainless Steel (V4A)		LT 100H TS38 5	LT 100H TS38 15	LT 100H TS38 T3 3	LT 100H TS58 J				
_			Polyester	□ 9,5 x 11,5	LT 100H SG 5 ²³	LT 100H SG 15 ²³	LT 100H SG T33	_				
			Polycarbonate	Ø12,7 Snap	LT 100H S30 5 ²³	LT 100H S30 15 ²³	_					
LSL			,	Ø10	LT 100 AP38 5	LT 100 AP38 15	LT 100 AP38 T3 3					
ransmiker managaran		Polycarbonate		LT 100 TP38 5	LT 100 TP38 15	LT 100 TP38 T33						
			Nickel Plated Brass	M12 x 1	LT 100 TB38 5	LT 100 TB38 15	LT 100 TB38 T33	LT 100 TB58 J ³				
100	+/-6°	Stainless Steel (V4A)		LT 100 TS38 5	LT 100 TS38 15	LT 100 TS38 T3 3	LT 100 TS58 J ³					
			Polyester	□ 9,5 x 11,5	LT 100 SG 5 ²³	LT 100 SG 15 ²³	LT 100 SG T33					
			Polycarbonate	Ø12,7 Snap	LT 100 S30 5 ²³	LT 100 S30 15 ²³	_	_				
			Polycarbonate Nickel Plated Brass	Ø10	LR 100 AP38 5	LR 100 AP38 15	LR 100 AP38 T33					
		+/-7°			LR 100 TP38 5	LR 100 TP38 15	LR 100 TP38 T33	_				
Ver				M12 x 1	LR 100 TB38 5	LR 100 TB38 15	LR 100 TB38 T33	LR 100 TB58 J ³				
e S			Stainless Steel (V4A)	2 % .	LR 100 TS38 5	LR 100 TS38 15	LR 100 TS38 T33	LR 100 TS58 J ³				
ř			-					Polyester	□ 9,5 x 11,5	LR 100 SG 5 ²³	LR 100 SG 15 ²³	LR 100 SG T33
			Polycarbonate	Ø12,7 Snap	LR 100 S30 5 ²³	LR 100 S30 15 ²³	-	_				
			,	.5.12,1.5.15,								
_				Ø10	LT 110 AP38 5	LT 110 AP38 15	LT 110 AP38 T33					
smitter		+/-5°		Polycarbonate	210	LT 110 TP38 5	LT 110 TP38 15	LT 110 AP38 T33				
Sm	<u> </u>		Nickel Plated Brass	Nickel Plated Brass	M12 x 1	LT 110 TB38 5	LT 110 TB38 15	LT 110 TB38 T3 3	LT 110 TB58 J ³			
110			WIIZXI	LT 110 TS38 5	LT 110 TS38 15	LT 110 TS38 T33	LT 110 TS58 J ³					
_	110	+/-3°	Stainless Steel (V4A) Polycarbonate	Ø10	LR 110 AP38 5	LR 110 AP38 15	LR 110 AP38 T3 ³	-				
e					LR 110 TP38 5	LR 110 TP38 15	LR 110 TP38 T33	_				
홋				M12 x 1	LR 110 TB38 5	LR 110 TB38 15	LR 110 TB38 T33	LR 110 TB58 J ³				
ĕ			Nickel Plated Brass	IVIIZXI								
			Stainless Steel (V4A)		LR 110 TS38 5	LR 110 TS38 15	LR 110 TS38 T3 ³	LR 110 TS58 J ³				
ē												
Iransmitter		+/- 4°			LT 120 TB45 5	LT 120 TB45 15	-	-				
_	120		Nickel Plated Brass	M18 x 1								
eeiver	120	+/-2,5°			LR 120 TB45 5	LR 120 TB45 15	-	-				

- Note: 1. Photo amplifiers to be ordered separately.
 - Remote sensors are available with optional power (LR) and output (LT) monitor LEDs for use with the applicable Telco photoelectric amplifier, which has
 the sensor LED drive. Add 'L' after the series number for sensor monitor LED e.g. LT/LR 101L AP 25 5. Sensors marked ² are not available with this optional
 feature.
 - 3. Remote Sensor series with cable connection is available to comply with ATEX (II 3 GD T6 EEx nA II U. Add "/EX" after the series number e.g. LT/LR 100/EX TS38 5. Sensors marked 3 are not available to comply with ATEX approval.

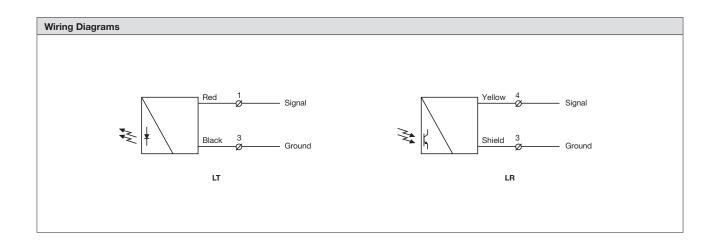




Applicable	e Photoelectric Ar	mplifiers and M	laximum Rang	jes					
Remote Sensor Series Amplifier Series		101		100		110		120	
		Thru-beam	Diffuse Proximity	Thru-beam	Diffuse Proximity	Thru-beam	Diffuse Proximity	Thru-beam	Diffuse Proximity
Photoelecti	ric Amplifier Series								
PA 01		8 m	0,6 m	10 m	0,7 m	23 m	1,6 m	45 m	3,5 m
PA 09		5 m	0,4 m	-	-	-		-	_
PA 10	Α	11 m	0,9 m	-	_	-	-	-	_
	В	_	-	15 m	1,1 m	35 m	2 m	60 m	4 m
PA 11		_	-	18 m	1,1 m	40 m	2 m	70 m	5 m
Multiplexed	Amplifier Series								
MPA 21		-	-	10 m	0,7 m	25 m	1,6 m	45 m	3,5 m
MPA 41	A/B	_	-	8 m	0,6 m	18 m	1,3 m	35 m	2 m
	C/D	_	-	4 m	0,4 m	9 m	0,7 m	18 m	1,3 m
MPA 81	A/B	-	-	8 m	0,6 m	18 m	1,3 m	35 m	2 m
	C/D	-	-	4 m	0,4 m	9 m	0,7 m	18 m	1,3 m
Photoelecti	ric Amplifier Bus Ser	ies		•					
PAB 10		_	-	18 m	1,3 m	40 m	2 m	70 m	5 m
PAB 20		_	-	12 m	0,8 m	27 m	1,7 m	47 m	3,6 m
PAB 30		_	-	12 m	0,8 m	27 m	1,7 m	47 m	3,6 m

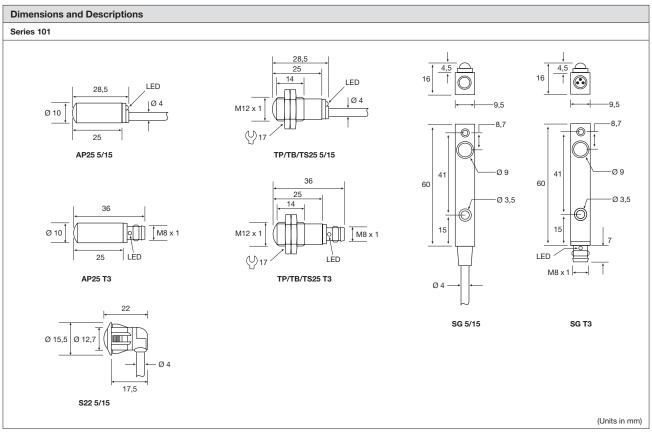
Note: Sensing ranges using glass fibre optics, please refer to page 149.

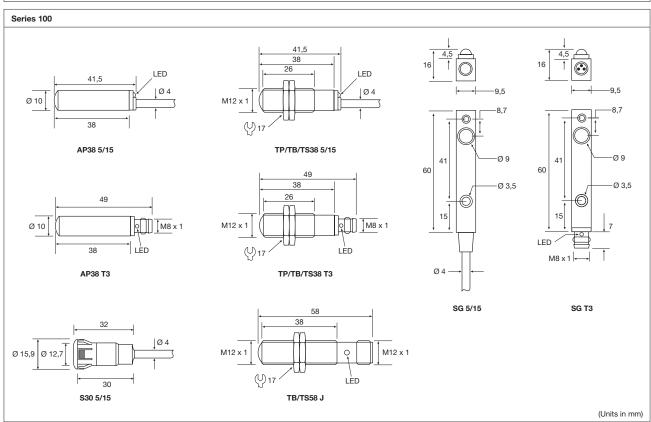
Connections				
	Cable	M8 Plug / Ca	ble	M12 Plug / Cable
Transmitter Signal	Red	Pin 1 / Brow	'n	Pin 1 / Brown
Transmitter Ground	Black	Pin 3 / Blue)	Pin 3 / Blue
Receiver Signal	Yellow	Pin 4 / Blac	k	Pin 4 / Black
Receiver Ground	Shield	Pin 3 / Blue	•	Pin 3 / Blue
3 pin		4 pin,		
Sensor Plug	Cable Plug	Sensor Plug	Cable Plug	
(Male)	(Female)	(Male)	(Female)	_
	Black			Brown
	Brown	(• 2	4 3 2 9	White
	Blue	_	T	— Blue
				Black





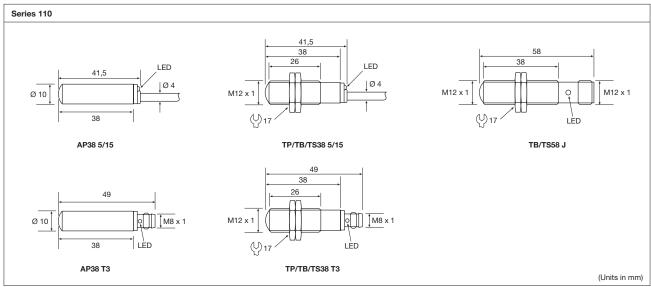




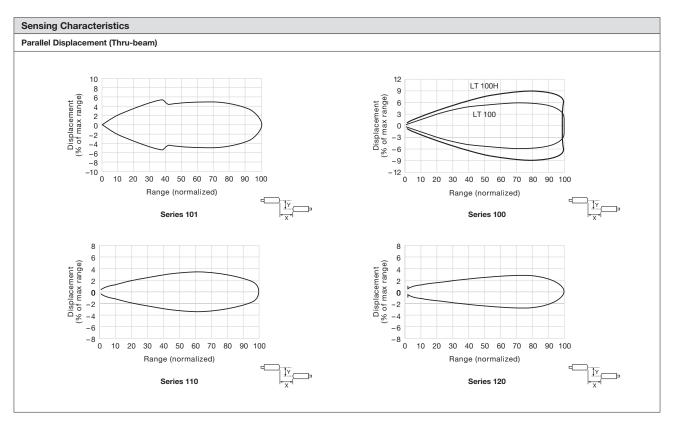
















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