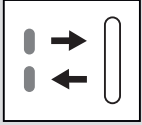




PHOTOELECTRIC SENSOR

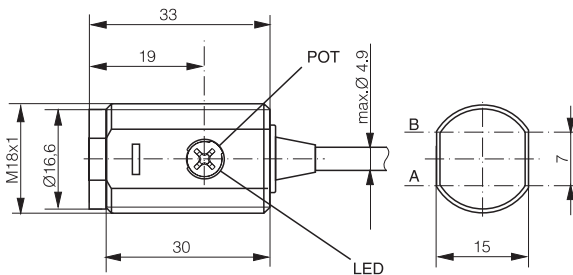
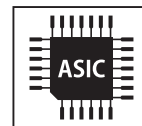
DIFFUSE

LTR-M18PA-PM

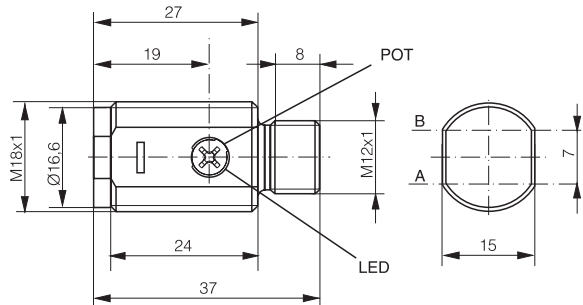


1'200 mm

- ✓ M18 short housing
- ✓ Sensitivity adjustment via potentiometer
- ✓ IO-Link
- ✓ Calibrated range
- ✓ Immunity to mutual interferences



A: emitter axis B: receiver axis



A: emitter axis B: receiver axis

OPTICAL DATA		INTERFACE	
Sensing range typ. max.	3...1'200 mm ¹	Sensitivity adjustment	30...1'200 mm, 3/4-turn pot.
Operating range	5...1'000 mm ¹	Indicator LED, green	Excess gain
Light source	LED, red 630 nm	Indicator LED, yellow	Sensing state
Light spot size (distance)	Ø 11 mm (500 mm)/Ø 21 mm (1 m)	IO-Link	✓

¹Object with 90% reflectance (standard white paper)

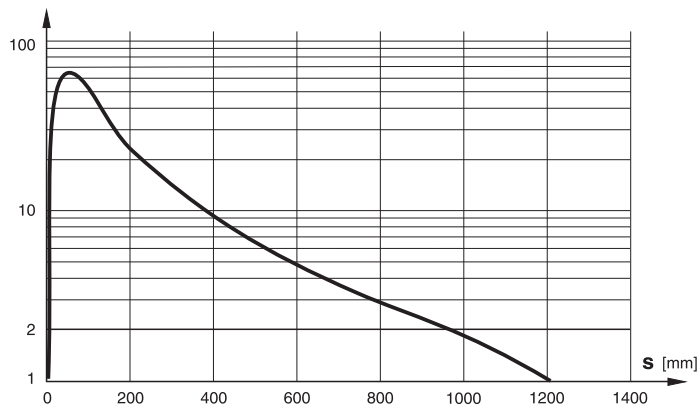
ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U _b)	10...30 VDC	Enclosure rating	IP67
Residual ripple	≤ 10% V _{pp}	Ambient temperature operation	-25...+65°C
Output current	≤ 200 mA	Shock and vibration	IEC 60947-5-2
Signal PNP high/low	≤ (U _b -2.0 V)/approx. 0 V	Weight (connector version)	6 g
Signal NPN high/low	Approx. U _b /≤ 2.0 V	Weight (cable version)	71 g
Power consumption (no load)	≤ 15 mA	Housing material	ABS
Response time ¹	≤ 300 μs (normal)/≤ 1 ms/≤ 100 μs	Window material	PMMA
Switching frequency ¹	≤ 1.5 kHz (normal)/≤ 500 Hz/≤ 5 kHz	Connection cable	PVC, 2 m, 3-wire or 4-wire
Short circuit protection	✓	Connector type	M12 4-pin
Voltage reversal protection	✓		

¹By default, "Normal" mode. "Fine" and "Fast" modes selectable via IO-Link.

SENSING RANGE

EXCESS GAIN

Target	Operating range	Sensing range max.
90%	5...1'000 mm	3...1'200 mm
18%	5...450 mm	3...550 mm
6%	6...250 mm	5...350 mm

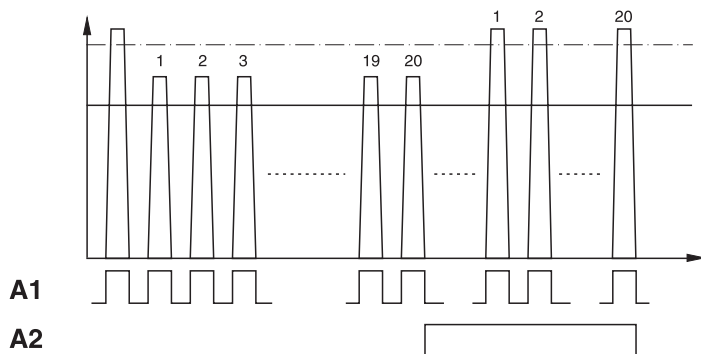


IO-LINK FUNCTIONALITIES

STABILITY ALARM OUTPUT (A2)

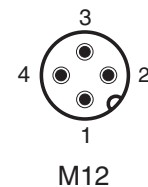
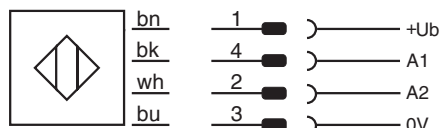
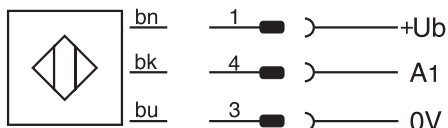
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature

IO-Link specifications and IODD files may be downloaded from www.contrinex.com (Download section)



WIRING DIAGRAM

PIN ASSIGNMENT



AVAILABLE TYPES

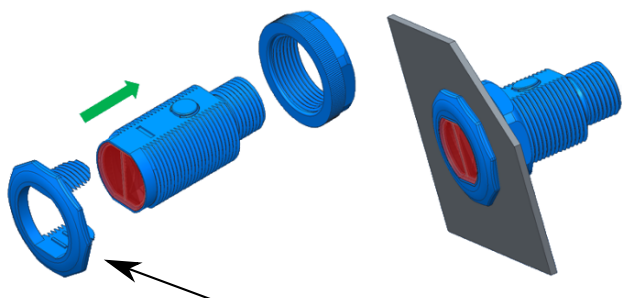
Part number	Part reference	Polarity	Connection	Output (A1)	Output (A2)
620 600 168	LTR-M18PA-PMK-403	PNP	PVC, 2 m, 3-wire	Light-on/IO-Link	-
620 600 169	LTR-M18PA-PMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 170	LTR-M18PA-PMK-60C	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Stability alarm
620 600 171	LTR-M18PA-PMK-301	NPN	PVC, 2 m, 3-wire	Light-on	-
620 600 172	LTR-M18PA-PMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 173	LTR-M18PA-PMK-10A	NPN	PVC, 2 m, 4-wire	Light-on	Stability alarm
620 600 174	LTR-M18PA-PMS-403	PNP	Connector M12 4-pin	Light-on/IO-Link	-
620 600 175	LTR-M18PA-PMS-603	PNP	Connector M12 4-pin	Light-on/IO-Link	Dark-on
620 600 176	LTR-M18PA-PMS-60C	PNP	Connector M12 4-pin	Light-on/IO-Link	Stability alarm
620 600 177	LTR-M18PA-PMS-301	NPN	Connector M12 4-pin	Light-on	-
620 600 178	LTR-M18PA-PMS-101	NPN	Connector M12 4-pin	Light-on	Dark-on
620 600 179	LTR-M18PA-PMS-10A	NPN	Connector M12 4-pin	Light-on	Stability alarm

Note: additional suffix can appear to indicate a revision version or a special version.

Operators of the products we supply are responsible for compliance with measures for the protection of persons. The use of our equipment in applications where the safety of persons might be at risk is only authorized if the operator observes and implements separate, appropriate and necessary measures for the protection of persons and machines. Terms of delivery and rights to change design reserved.

M18P Series. Easy flush mounting

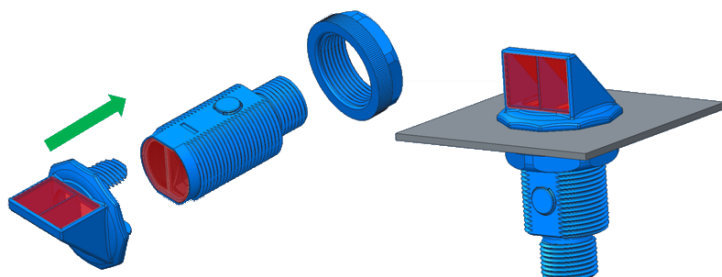
- ✓ The M18P sensors are delivered with 2 mounting accessories (1x special mounting head, 2x nut)
- ✓ With 2 nuts -> standard mounting
- ✓ With special mounting head and nut -> easy flush mounting



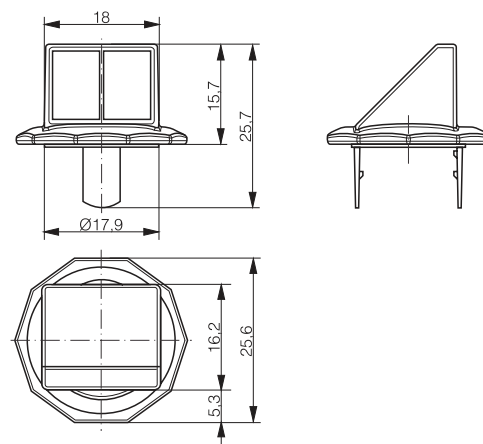
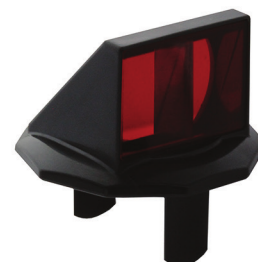
Fästet levereras med givaren

M18P Series 90° accessory

- ✓ It leads to less different part numbers
 - Stock reduction at customers/distributors
 - Better availability & delivery time of radial versions
- ✓ Same principle of easy flush mounting



Vinkelspegel beställs separat



OPTICAL DATA

Sensing range typ. max.	See tables
Operating range	See tables

MECHANICAL DATA

Material	ABS/PMMA
Weight	2 g

SENSING RANGE WITH LTR-M18PA

SENSING RANGE WITH LRR-M18PA

Target	Operating range	Sensing range max.	Target	Operating range	Sensing range typ.max.
90%	0...800 mm	0...1'000 mm	LXR-0000-084	20...4'500 mm	15...5'500 mm
18%	3...360 mm	3...440 mm	LXR-0000-046	70...3'300 mm ¹	60...3'700 mm ¹
6%	8...200 mm	8...280 mm	LXR-0001-088	25...6'000 mm ¹	20...7'300 mm ¹
			LXR-0001-064	35...4'300 mm ¹	30...5'300 mm ¹

¹Indicative value

AVAILABLE TYPE

Part number	Part reference
622 000 096	LTW-M18PA-000

Note: additional suffix can appear to indicate a revision version or a special version.