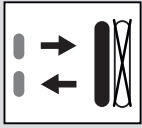


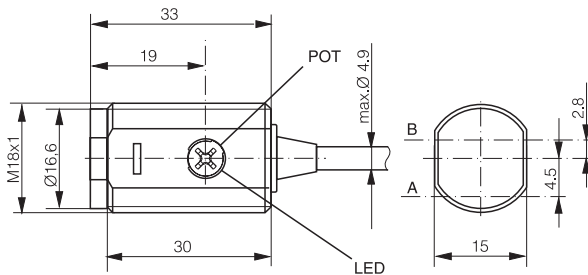
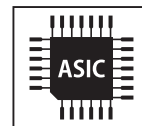


PHOTOELECTRIC SENSOR BACKGROUND SUPPRESSION LHR-M18PA-PM

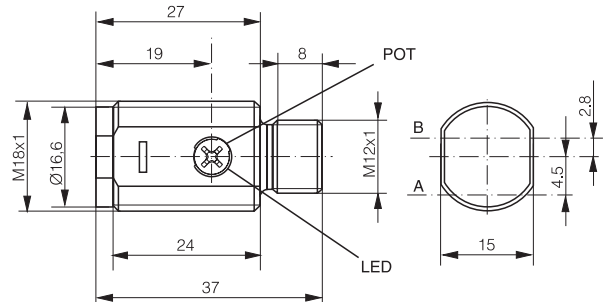


250 mm

- ✓ M18 short housing
- ✓ Sensitivity adjustment via potentiometer
- ✓ IO-Link
- ✓ Excellent black/white behavior
- ✓ Immunity to mutual interferences



A: emitter axis B: receiver axis



A: emitter axis B: receiver axis

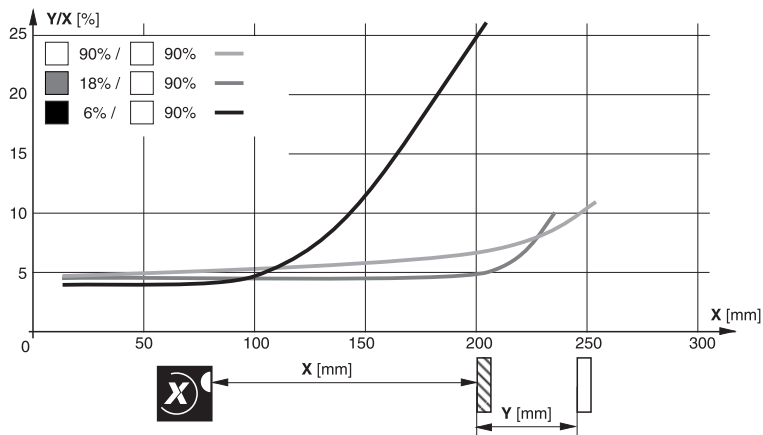
OPTICAL DATA		INTERFACE	
Sensing range typ. max.	10...250 mm ¹	Sensitivity adjustment	30...250 mm, 3/4-turn pot.
Operating range	15...210 mm ¹	Indicator LED, green	Excess gain
Light source	Pinpoint LED, red 640 nm	Indicator LED, yellow	Sensing state
Light spot size (distance)	Ø 6 mm (100 mm)/Ø 10 mm (250 mm)	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)	≤ 30 mA	Housing material	ABS
Response time ¹	≤ 700 μs (normal)/≤ 1.1 ms/≤ 500 μs	Window material	PMMA
Switching frequency ¹	≤ 700 Hz (normal)/≤ 450 Hz/≤ 1 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.

BACKGROUND SHIFT

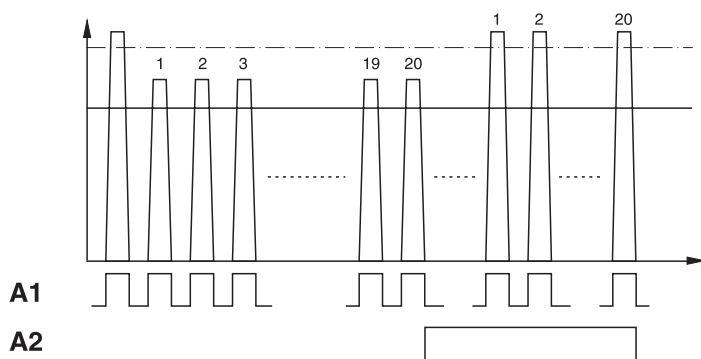


IO-LINK FUNCTIONALITIES

STABILITY ALARM OUTPUT (A2)

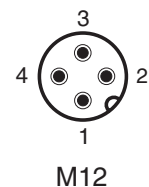
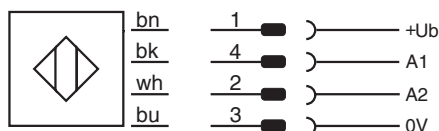
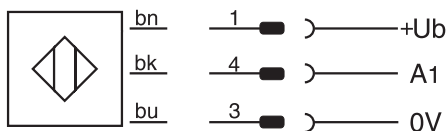
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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



WIRING DIAGRAM

PIN ASSIGNMENT



AVAILABLE TYPES

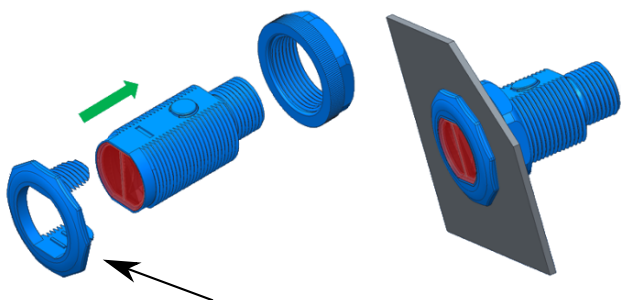
Part number	Part reference	Polarity	Connection	Output (A1)	Output (A2)
620 600 208	LHR-M18PA-PMK-403	PNP	PVC, 2 m, 3-wire	Light-on/IO-Link	-
620 600 209	LHR-M18PA-PMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 210	LHR-M18PA-PMK-60C	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Stability alarm
620 600 211	LHR-M18PA-PMK-301	NPN	PVC, 2 m, 3-wire	Light-on	-
620 600 212	LHR-M18PA-PMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 213	LHR-M18PA-PMK-10A	NPN	PVC, 2 m, 4-wire	Light-on	Stability alarm
620 600 214	LHR-M18PA-PMS-403	PNP	Connector M12 4-pin	Light-on/IO-Link	-
620 600 215	LHR-M18PA-PMS-603	PNP	Connector M12 4-pin	Light-on/IO-Link	Dark-on
620 600 216	LHR-M18PA-PMS-60C	PNP	Connector M12 4-pin	Light-on/IO-Link	Stability alarm
620 600 217	LHR-M18PA-PMS-301	NPN	Connector M12 4-pin	Light-on	-
620 600 218	LHR-M18PA-PMS-101	NPN	Connector M12 4-pin	Light-on	Dark-on
620 600 219	LHR-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

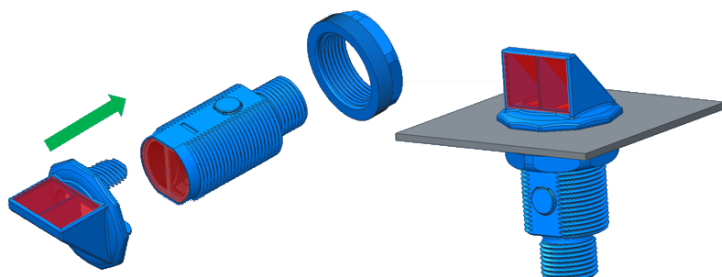
- ✓ The M18P sensors are delivered with 2 mounting accessories (1x special mounting head, 2x nut)
- ✓ With 2 nuts -> standard mounting
- ✓ With special mounting head and nut -> easy flush mounting



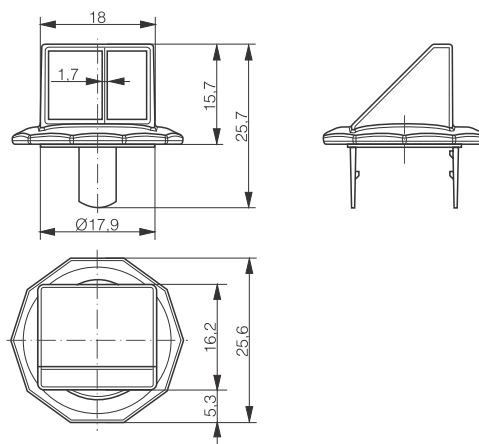
Fästet levereras med givaren

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



MECHANICAL DATA

Material	ABS / PMMA
Weight	2 g

OPTICAL DATA

Sensing range typ. max.	10...150 mm ¹
Operating range	15...130 mm ¹

¹Object with 90% reflectance (standard white paper)

AVAILABLE TYPE

Part number	Part reference
622 000 098	LHW-M18PA-000

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