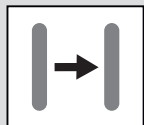


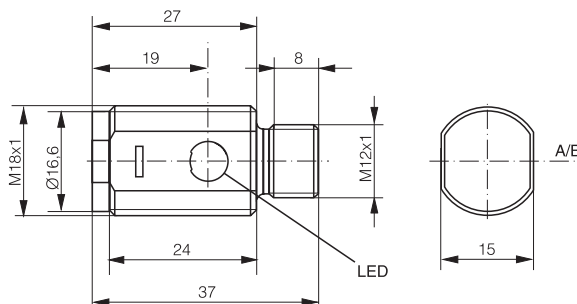
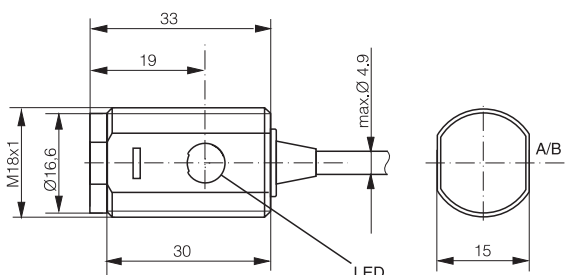
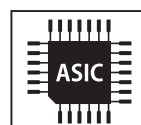


PHOTOELECTRIC SENSOR THROUGH-BEAM LLR-M18PA-NM



30'000 mm

- ✓ M18 short housing
- ✓ IO-Link
- ✓ Sensitivity adjustment via IO-Link
- ✓ Calibrated range
- ✓ Emitting sequence selection via IO-Link



A: emitter axis B: receiver axis

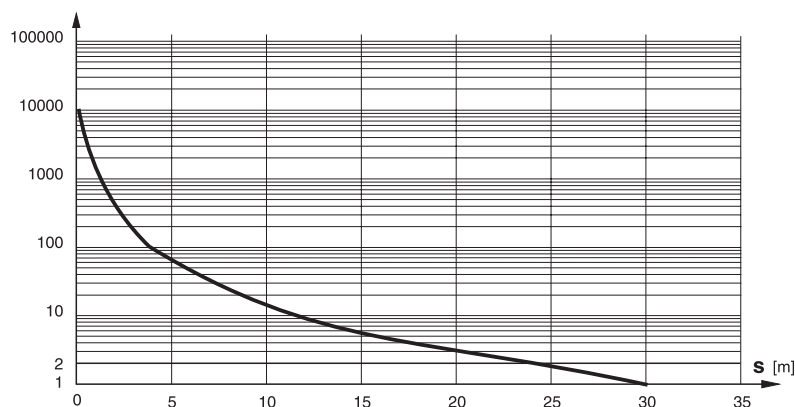
A: emitter axis B: receiver axis

OPTICAL DATA		INTERFACE	
Sensing range typ. max.	0...30'000 mm	Sensitivity adjustment	7'000...30'000 mm, IO-Link
Operating range	0...25'000 mm	Indicator LED, green	Excess gain
Light source	LED, red 630 nm	Indicator LED, yellow	Sensing state
Light spot size (distance)	Ø 35 mm (500 mm)/Ø 250 mm (6 m)/ Ø 1'000 mm (25 m)	IO-Link	✓

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)	≤ 7 mA (emitter)/≤ 13 mA (receiver)	Housing material	ABS
Response time ¹	≤ 500 µs (normal)/≤ 1 ms/≤ 250 µs	Window material	PMMA
Switching frequency ¹	≤ 1 kHz (normal)/≤ 500 Hz/≤ 2 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.

EXCESS GAIN

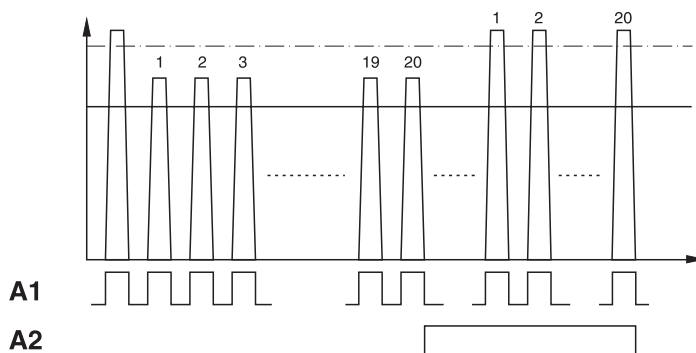


IO-LINK FUNCTIONALITIES

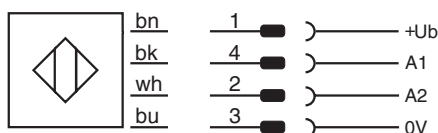
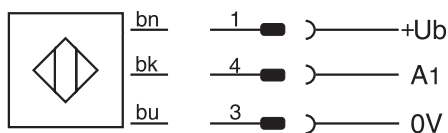
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensitivity, sequence choice, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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

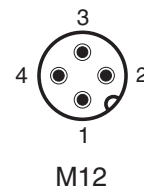
STABILITY ALARM OUTPUT (A2)



WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

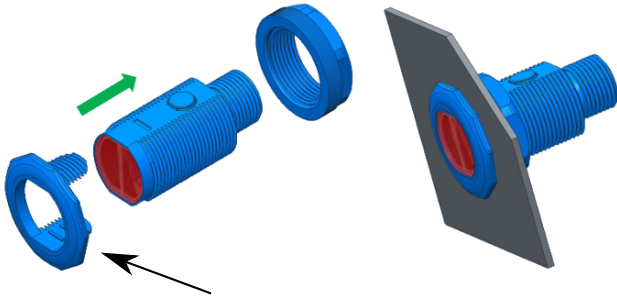
Part number	Part reference	Polarity	Connection	Output (A1)	Output (A2)
620 600 194	LLR-M18PA-NMK-400	Emitter	PVC, 2 m, 3-wire	IO-Link	-
620 600 195	LLR-M18PA-NMS-400	Emitter	Connector M12 4-pin	IO-Link	-
620 600 196	LLR-M18PA-NMK-404	PNP	PVC, 2 m, 3-wire	Dark-on/IO-Link	-
620 600 197	LLR-M18PA-NMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 198	LLR-M18PA-NMK-60D	PNP	PVC, 2 m, 4-wire	Dark-on/IO-Link	Stability alarm
620 600 199	LLR-M18PA-NMK-302	NPN	PVC, 2 m, 3-wire	Dark-on	-
620 600 200	LLR-M18PA-NMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 201	LLR-M18PA-NMK-10B	NPN	PVC, 2 m, 4-wire	Dark-on	Stability alarm
620 600 202	LLR-M18PA-NMS-404	PNP	Connector M12 4-pin	Dark-on/IO-Link	-
620 600 203	LLR-M18PA-NMS-603	PNP	Connector M12 4-pin	Light-on/IO-Link	Dark-on
620 600 204	LLR-M18PA-NMS-60D	PNP	Connector M12 4-pin	Dark-on/IO-Link	Stability alarm
620 600 205	LLR-M18PA-NMS-302	NPN	Connector M12 4-pin	Dark-on	-
620 600 206	LLR-M18PA-NMS-101	NPN	Connector M12 4-pin	Light-on	Dark-on
620 600 207	LLR-M18PA-NMS-10B	NPN	Connector M12 4-pin	Dark-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

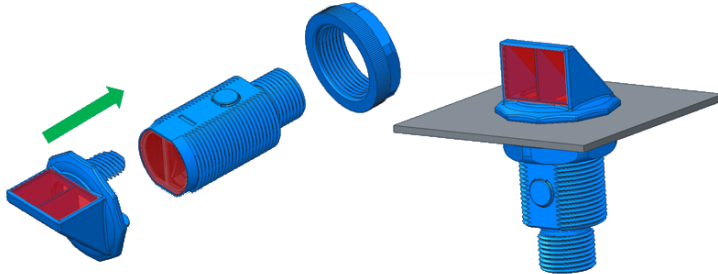
- ✓ The M18P sensors are delivered with 2 mounting accessories (1x special mounting head, 2x nut)
- ✓ With 2 nuts -> standard mounting
- ✓ With special mounting head and nut -> easy flush mounting



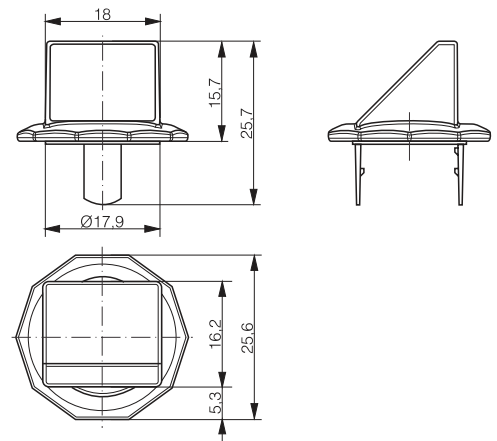
Fästet levereras med givaren

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.	0...24'000 mm
Operating range	0...20'000 mm

MECHANICAL DATA

Material	ABS/PMMA
Weight	2 g

AVAILABLE TYPE

Part number	Part reference
622 000 097	LLW-M18PA-000

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