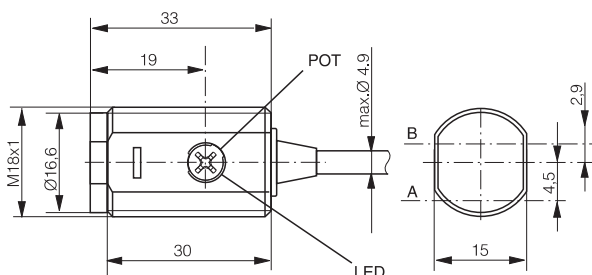
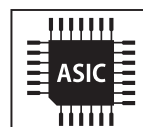
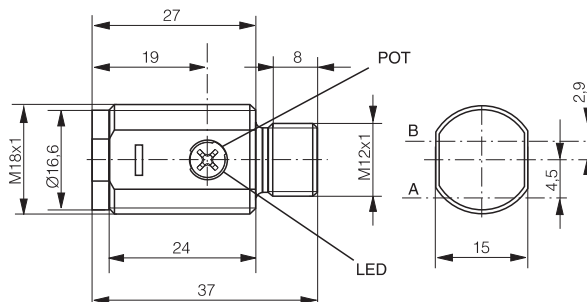


250 mm

- ✓ 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

Sensing range typ. max.	10...250 mm ¹
Operating range	15...210 mm ¹
Light source	Pinpoint LED, red 640 nm
Light spot size (distance)	Ø 6 mm (100 mm)/Ø 10 mm (250 mm)

INTERFACE

Sensitivity adjustment	30...250 mm, 3/4-turn pot.
Indicator LED, green	Excess gain
Indicator LED, yellow	Sensing state
IO-Link	✓
MTTF (@40°C)	554 y

¹Object with 90% reflectance (standard white paper)

ELECTRICAL DATA

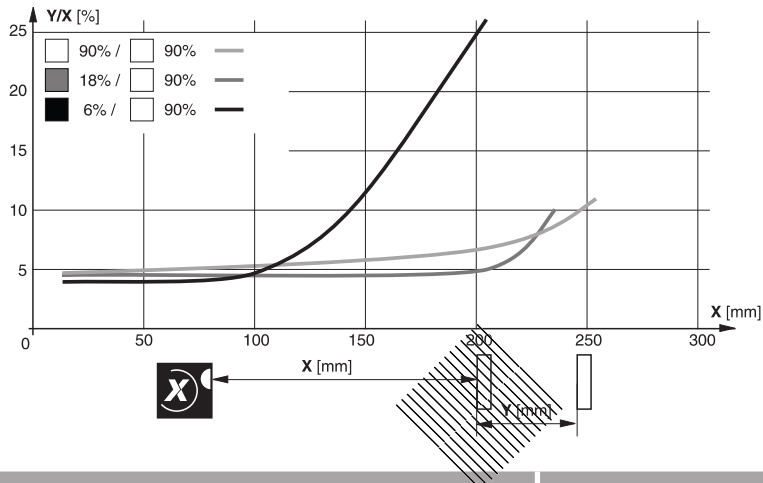
Supply voltage range (U _b)	10...30 VDC
Residual ripple	≤ 10% V _{pp}
Output current	≤ 200 mA
Signal PNP high/low	≤ (U _b -2.0 V)/approx. 0 V
Signal NPN high/low	Approx. U _b /≤ 2.0 V
Power consumption (no load)	≤ 30 mA
Response time ¹	≤ 700 μs (normal)/≤ 1.1 ms/≤ 500 μs
Switching frequency ¹	≤ 700 Hz (normal)/≤ 450 Hz/≤ 1 kHz
Short circuit protection	✓
Voltage reversal protection	✓

MECHANICAL DATA

Enclosure rating	IP67
Ambient temperature operation	-25...+65°C
Shock and vibration	IEC 60947-5-2
Weight (connector version)	6 g
Weight (cable version)	71 g
Housing material	ABS
Window material	PMMA
Connection cable	PVC, 2 m, 3-wire or 4-wire
Connector type	M12 4-pin
Max tightening torque	1 Nm

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

BACKGROUND SHIFT

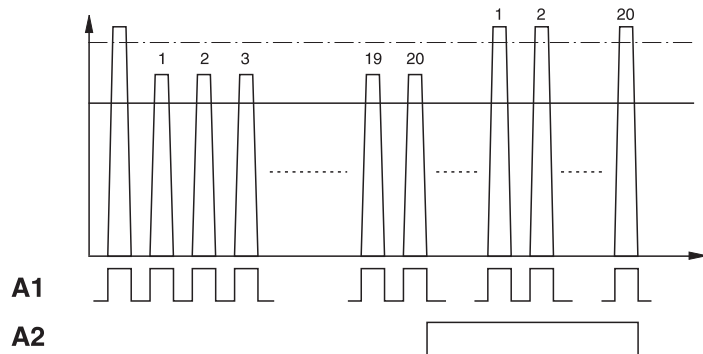


IO-LINK FUNCTIONALITIES

STABILITY ALARM OUTPUT (A2)

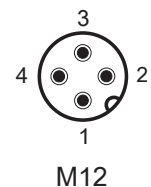
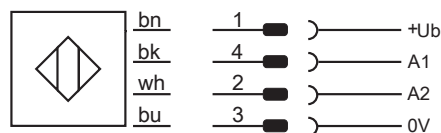
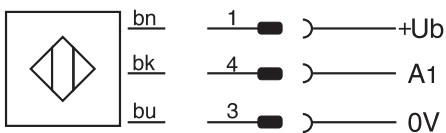
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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.