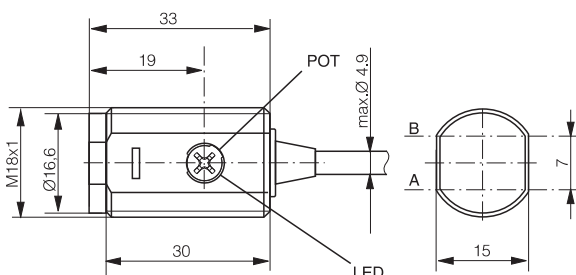
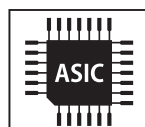
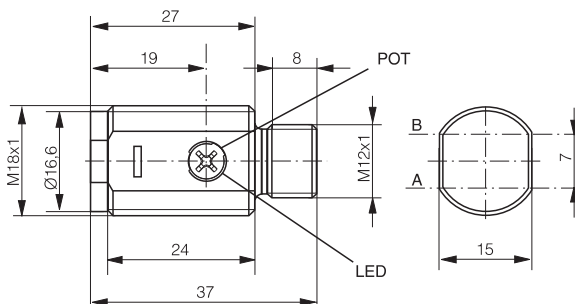


1'200 mm

- ✓ 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

Sensing range typ. max.	3...1'200 mm ¹
Operating range	5...1'000 mm ¹
Light source	LED, red 630 nm
Light spot size (distance)	Ø 11 mm (500 mm)/Ø 21 mm (1 m)

INTERFACE

Sensitivity adjustment	30...1'200 mm, 3/4-turn pot.
Indicator LED, green	Excess gain
Indicator LED, yellow	Sensing state
IO-Link	✓
MTTF (@40°C)	652 y

¹Object with 90% reflectance (standard white paper)

ELECTRICAL DATA

Supply voltage range (Ub)	10...30 VDC
Residual ripple	≤ 10% Vpp
Output current	≤ 200 mA
Signal PNP high/low	≤ (Ub-2.0 V)/approx. 0 V
Signal NPN high/low	Approx. Ub/≤ 2.0 V
Power consumption (no load)	≤ 15 mA
Response time ¹	≤ 300 µs (normal)/≤ 1 ms/≤ 100 µs
Switching frequency ¹	≤ 1.5 kHz (normal)/≤ 500 Hz/≤ 5 kHz
Short circuit protection	✓
Voltage reversal protection	✓

MECHANICAL DATA

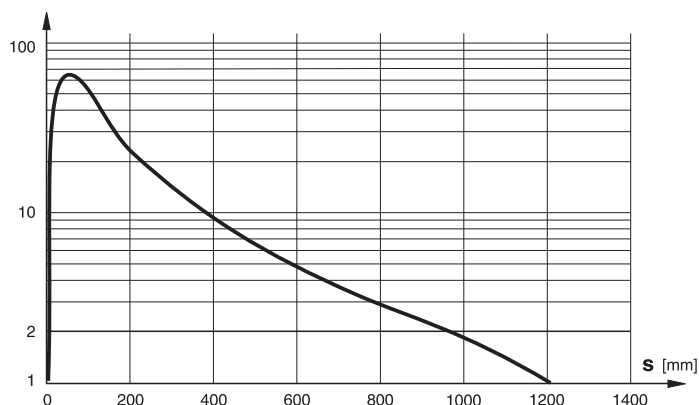
Enclosure rating	IP67
Ambient temperature operation	-25...+65°C
Shock and vibration	IEC 60947-5-2
Weight (connector version)	6 g
Weight (cable version)	71 g
Housing material	ABS
Window material	PMMA
Connection cable	PVC, 2 m, 3-wire or 4-wire
Connector type	M12 4-pin
Max tightening torque	1 Nm

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

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

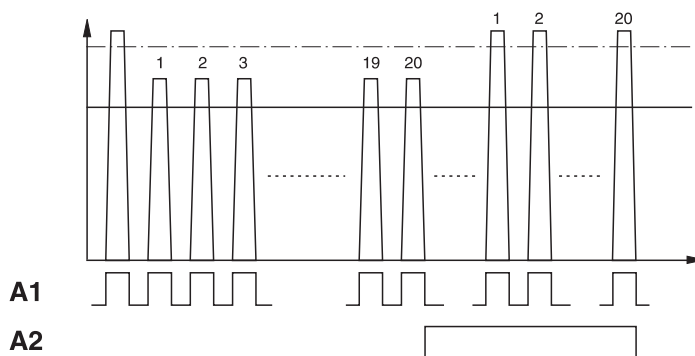


IO-LINK FUNCTIONALITIES

STABILITY ALARM OUTPUT (A2)

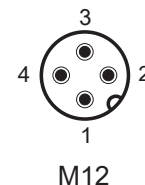
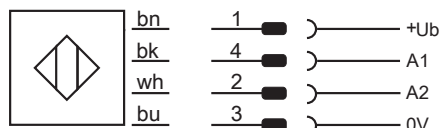
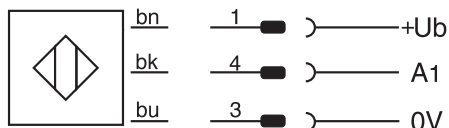
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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.