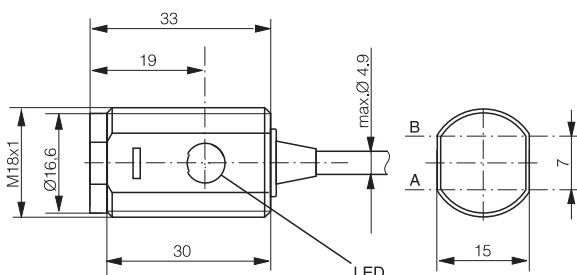
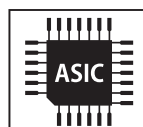
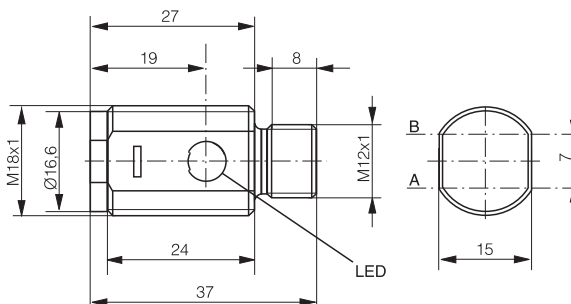


7'000 mm

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



A: emitter axis B: receiver axis



A: emitter axis B: receiver axis

OPTICAL DATA

Sensing range typ. max.	20...7'000 mm ¹
Operating range	30...5'500 mm ¹
Light source	LED, red 630 nm
Light spot size (distance)	Ø 21 mm (1 m)/Ø 110 mm (6 m)
Polarizing filter	✓

¹Reference reflector LXR-0000-084

INTERFACE

Sensitivity adjustment	2'500...7'000 mm, IO-Link
Indicator LED, green	Excess gain
Indicator LED, yellow	Sensing state
IO-Link	✓
MTTF (@40°C)	652 y

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)	≤ 15 mA
Response time ¹	≤ 340 µs (normal)/≤ 1 ms/≤ 115 µs
Switching frequency ¹	≤ 1.5 kHz (normal)/≤ 500 Hz/≤ 4.5 kHz
Short circuit protection	✓
Voltage reversal protection	✓

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

MECHANICAL DATA

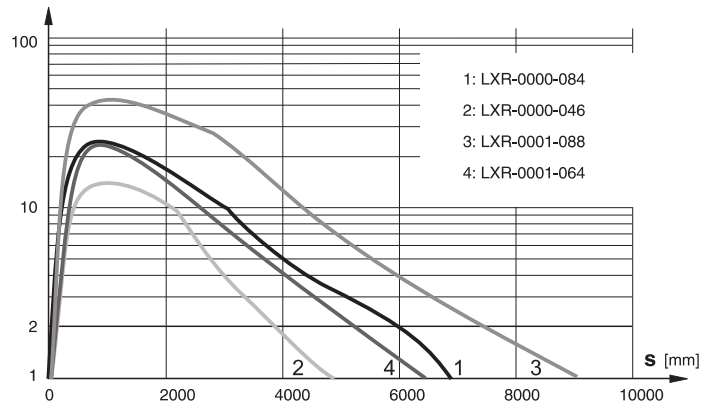
Enclosure rating	IP67
Ambient temperature operation	-25...+65°C
Shock and vibration	IEC 60947-5-2
Weight (connector version)	6 g
Weight (cable version)	71 g
Housing material	ABS
Window material	PMMA
Connection cable	PVC, 2 m, 3-wire or 4-wire
Connector type	M12 4-pin
Max tightening torque	1 Nm

SENSING RANGE

EXCESS GAIN

Target	Operating range	Sensing range typ. max.
LXR-0000-084	30...5'500 mm	20...7'000 mm
LXR-0000-046	30...4'000 mm ¹	20...4'900 mm ¹
LXR-0001-088	30...7'300 mm ¹	20...9'200 mm ¹
LXR-0001-064	30...5'200 mm ¹	20...6'500 mm ¹

¹Indicative value

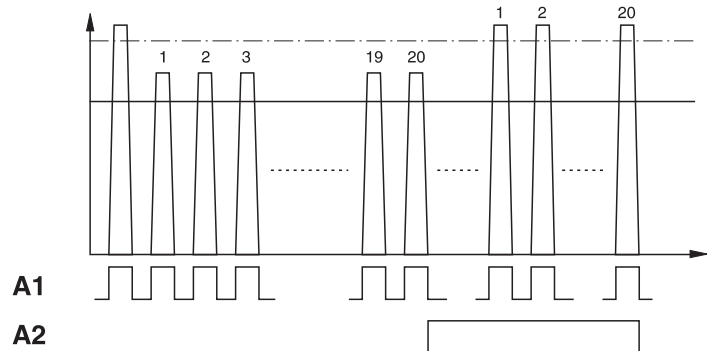


IO-LINK FUNCTIONALITIES

STABILITY ALARM OUTPUT (A2)

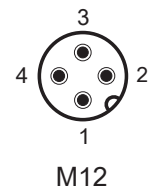
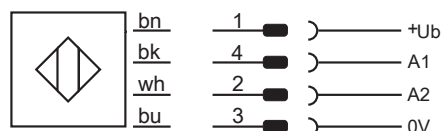
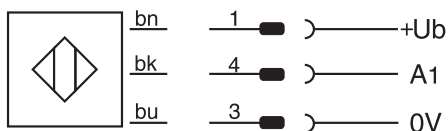
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensitivity, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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)
620 600 182	LRR-M18PA-NMK-404	PNP	PVC, 2 m, 3-wire	Dark-on/IO-Link	-
620 600 183	LRR-M18PA-NMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 184	LRR-M18PA-NMK-60D	PNP	PVC, 2 m, 4-wire	Dark-on/IO-Link	Stability alarm
620 600 185	LRR-M18PA-NMK-302	NPN	PVC, 2 m, 3-wire	Dark-on	-
620 600 186	LRR-M18PA-NMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 187	LRR-M18PA-NMK-10B	NPN	PVC, 2 m, 4-wire	Dark-on	Stability alarm
620 600 188	LRR-M18PA-NMS-404	PNP	Connector M12 4-pin	Dark-on/IO-Link	-
620 600 189	LRR-M18PA-NMS-603	PNP	Connector M12 4-pin	Light-on/IO-Link	Dark-on
620 600 190	LRR-M18PA-NMS-60D	PNP	Connector M12 4-pin	Dark-on/IO-Link	Stability alarm
620 600 191	LRR-M18PA-NMS-302	NPN	Connector M12 4-pin	Dark-on	-
620 600 192	LRR-M18PA-NMS-101	NPN	Connector M12 4-pin	Light-on	Dark-on
620 600 193	LRR-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.