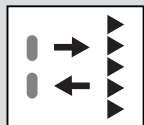


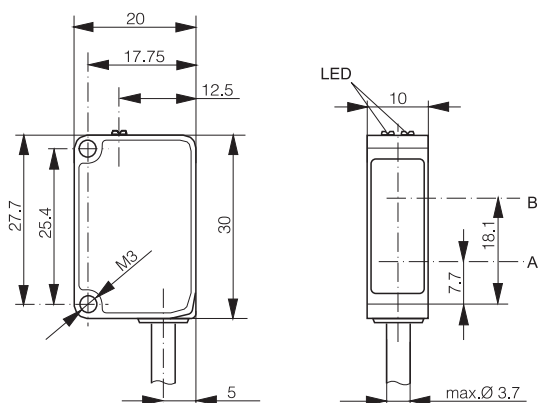
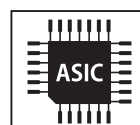


PHOTOELECTRIC SENSOR REFLEX LRR-C23PA-NM

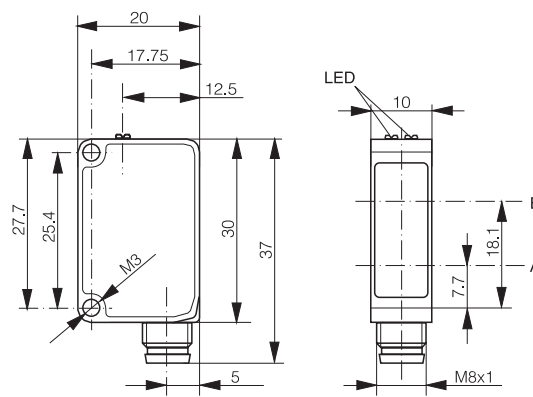


8'000 mm

- ✓ Miniature 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		INTERFACE	
Sensing range typ. max.	20...8'000 mm ¹	Sensitivity adjustment	2'500...8'000 mm, IO-Link
Operating range	30...6'000 mm ¹	Indicator LED, green	Excess gain
Light source	LED, red 630 nm	Indicator LED, yellow	Sensing state
Light spot size (distance)	Ø 30 mm (1 m)/Ø 140 mm (6 m)	IO-Link	✓
Polarizing filter	✓		

¹Reference reflector LXR-0000-084

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	≤ 100 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)	36 g (3-wire)/42 g (4-wire)
Power consumption (no load)	≤ 15 mA	Housing material	ABS
Response time ¹	≤ 340 μs (normal)/≤ 1 ms/≤ 100 μs	Window material	PMMA
Switching frequency ¹	≤ 1.5 kHz (normal)/≤ 500 Hz/≤ 5 kHz	Connection cable	PVC, 2 m, 3-wire or 4-wire
Short circuit protection	✓	Connector type	M8 3-pin or 4-pin
Voltage reversal protection	✓		

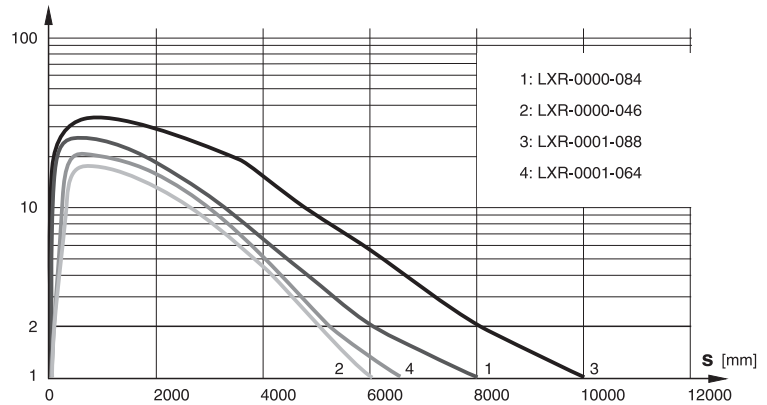
¹By default, “Normal” mode. “Fine” and “Fast” modes selectable via IO-Link.

SENSING RANGE

EXCESS GAIN

Target	Operating range	Sensing range typ. max.
LXR-0000-084	30...6'000 mm	20...8'000 mm
LXR-0000-046	70...4'500 mm ¹	50...6'000 mm ¹
LXR-0001-088	30...8'000 mm ¹	20...10'000 mm ¹
LXR-0001-064	30...5'000 mm ¹	20...6'500 mm ¹

¹Indicative value

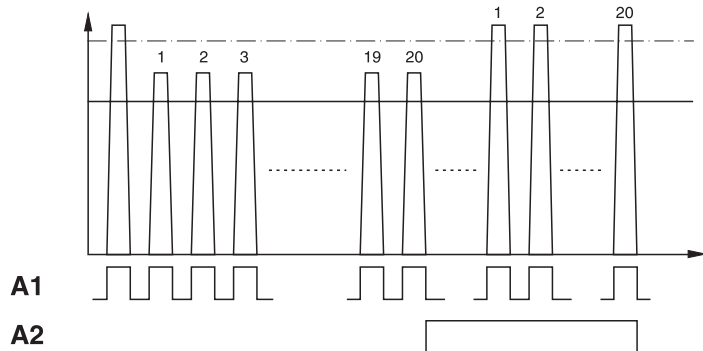


IO-LINK FUNCTIONALITIES

STABILITY ALARM OUTPUT (A2)

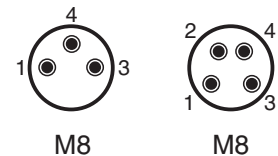
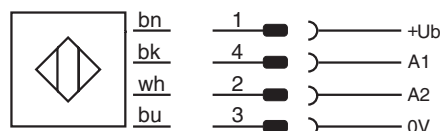
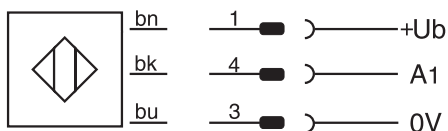
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensitivity, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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)
620 600 114	LRR-C23PA-NMK-404	PNP	PVC, 2 m, 3-wire	Dark-on/IO-Link	-
620 600 115	LRR-C23PA-NMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 116	LRR-C23PA-NMK-60D	PNP	PVC, 2 m, 4-wire	Dark-on/IO-Link	Stability alarm
620 600 117	LRR-C23PA-NMK-302	NPN	PVC, 2 m, 3-wire	Dark-on	-
620 600 118	LRR-C23PA-NMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 119	LRR-C23PA-NMK-10B	NPN	PVC, 2 m, 4-wire	Dark-on	Stability alarm
620 600 120	LRR-C23PA-NMS-404	PNP	Connector M8 3-pin	Dark-on/IO-Link	-
620 600 121	LRR-C23PA-NMS-603	PNP	Connector M8 4-pin	Light-on/IO-Link	Dark-on
620 600 122	LRR-C23PA-NMS-60D	PNP	Connector M8 4-pin	Dark-on/IO-Link	Stability alarm
620 600 123	LRR-C23PA-NMS-302	NPN	Connector M8 3-pin	Dark-on	-
620 600 124	LRR-C23PA-NMS-101	NPN	Connector M8 4-pin	Light-on	Dark-on
620 600 125	LRR-C23PA-NMS-10B	NPN	Connector M8 4-pin	Dark-on	Stability alarm

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

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