



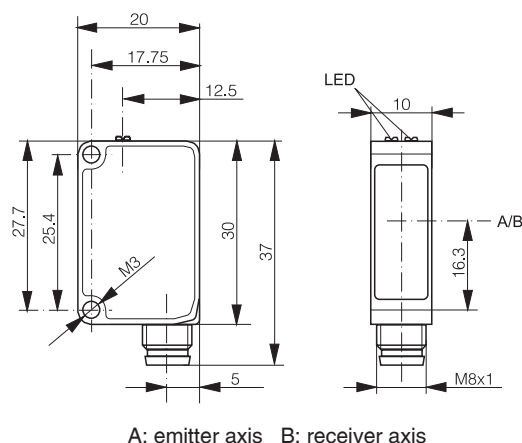
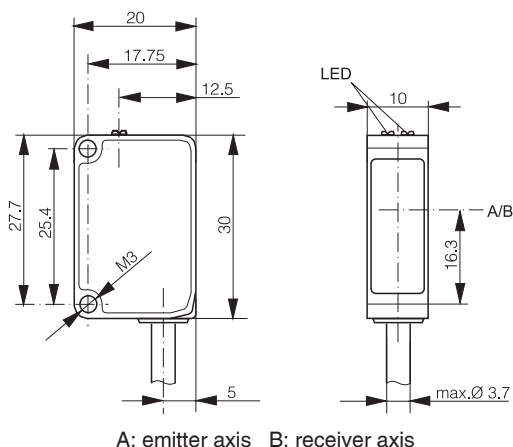
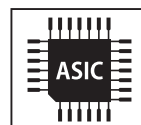
PHOTOELECTRIC SENSOR THROUGH-BEAM LLR-C23PA-NM

HM 1607



30'000 mm

- ✓ Miniature housing
- ✓ IO-Link
- ✓ Sensitivity adjustment via IO-Link
- ✓ Calibrated range
- ✓ Emitting sequence selection via IO-Link
- ✓ Alignment aid



OPTICAL DATA

Sensing range typ. max.	0...30'000 mm
Operating range	0...25'000 mm
Light source	LED, red 630 nm
Light spot size (distance)	Ø 15 mm (300 mm)/Ø 120 mm (4 m)/ Ø 300 mm (10 m)

INTERFACE

Sensitivity adjustment	2'000...30'000 mm, IO-Link
Indicator LED, green	Excess gain
Indicator LED, yellow	Sensing state
IO-Link	✓
Alignment aid	✓ (on -322 versions only)

ELECTRICAL DATA

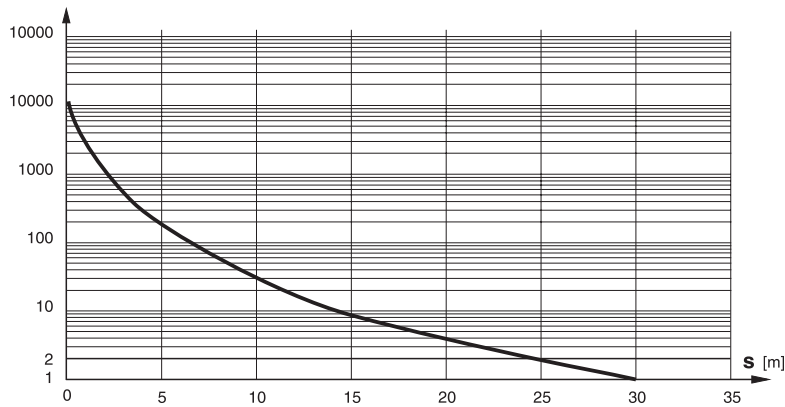
Supply voltage range (U _b)	10...30 VDC
Residual ripple	≤ 10% V _{pp}
Output current	≤ 100 mA
Signal PNP high/low	≤ (U _b -2.0 V)/approx. 0 V
Signal NPN high/low	Approx. U _b /≤ 2.0 V
Power consumption (no load)	≤ 7 mA (emitter)/≤ 9 mA (receiver)
Response time ¹	≤ 500 µs (normal)/≤ 1 ms/≤ 250 µs
Switching frequency ¹	≤ 1 kHz (normal)/≤ 500 Hz/≤ 2 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)	36 g (3-wire)/42 g (4-wire)
Housing material	ABS
Window material	PMMA
Connection cable	PVC, 2 m, 3-wire or 4-wire
Connector type	M8 3-pin or 4-pin

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

EXCESS GAIN

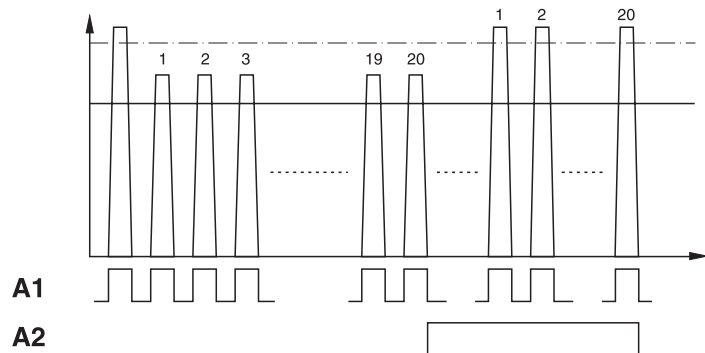


IO-LINK FUNCTIONALITIES

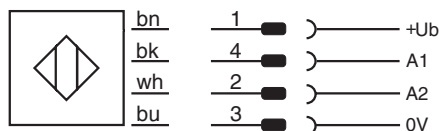
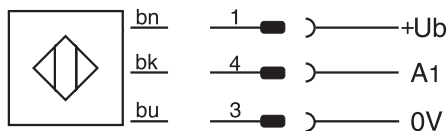
IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensitivity, sequence choice, sensor mode, detection counter, event flags, maximum and actual sensor temperature

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

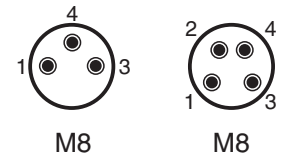
STABILITY ALARM OUTPUT (A2)



WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output (A1)	Output (A2)
620 600 126	LLR-C23PA-NMK-400	Emitter	PVC, 2 m, 3-wire	IO-Link	-
620 600 127	LLR-C23PA-NMS-400	Emitter	Connector M8 3-pin	IO-Link	-
620 600 128	LLR-C23PA-NMK-404	PNP	PVC, 2 m, 3-wire	Dark-on/IO-Link	-
620 600 129	LLR-C23PA-NMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 130	LLR-C23PA-NMK-60D	PNP	PVC, 2 m, 4-wire	Dark-on/IO-Link	Stability alarm
620 600 131	LLR-C23PA-NMK-302	NPN	PVC, 2 m, 3-wire	Dark-on	-
620 600 132	LLR-C23PA-NMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 133	LLR-C23PA-NMK-10B	NPN	PVC, 2 m, 4-wire	Dark-on	Stability alarm
620 600 134	LLR-C23PA-NMS-404	PNP	Connector M8 3-pin	Dark-on/IO-Link	-
620 600 135	LLR-C23PA-NMS-603	PNP	Connector M8 4-pin	Light-on/IO-Link	Dark-on
620 600 136	LLR-C23PA-NMS-60D	PNP	Connector M8 4-pin	Dark-on/IO-Link	Stability alarm
620 600 137	LLR-C23PA-NMS-302	NPN	Connector M8 3-pin	Dark-on	-
620 600 138	LLR-C23PA-NMS-101	NPN	Connector M8 4-pin	Light-on	Dark-on
620 600 139	LLR-C23PA-NMS-10B	NPN	Connector M8 4-pin	Dark-on	Stability alarm
620 600 140	LLR-C23PA-NMK-603-322	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 141	LLR-C23PA-NMK-101-322	NPN	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 142	LLR-C23PA-NMS-603-322	PNP	Connector M8 4-pin	Light-on/IO-Link	Dark-on
620 600 143	LLR-C23PA-NMS-101-322	NPN	Connector M8 4-pin	Light-on/IO-Link	Dark-on

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

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