

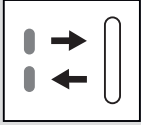


PHOTOELECTRIC SENSOR

DIFFUSE

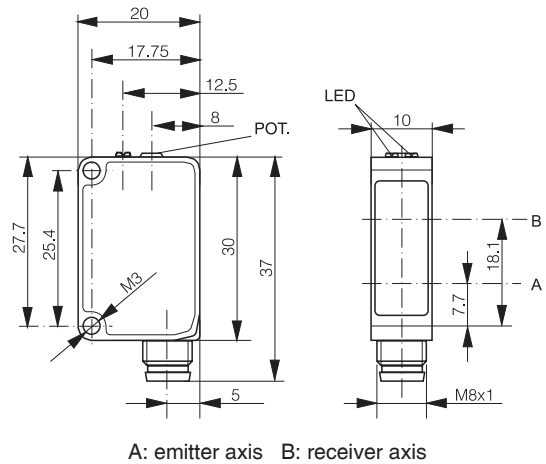
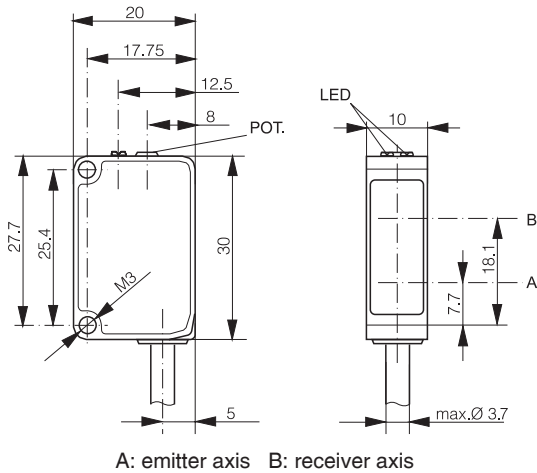
LTR-C23PA-PM

HM 1607



1'500 mm

- ✓ Miniature housing
- ✓ Sensitivity adjustment via potentiometer
- ✓ IO-Link
- ✓ Calibrated range
- ✓ Immunity to mutual interferences



OPTICAL DATA		INTERFACE	
Sensing range typ. max.	3...1'500 mm ¹	Sensitivity adjustment	30...1'500 mm, 3/4-turn pot.
Operating range	5...1'200 mm ¹	Indicator LED, green	Excess gain
Light source	LED, red 630 nm	Indicator LED, yellow	Sensing state
Light spot size (distance)	Ø 15 mm (500 mm)/Ø 26 mm (1 m)	IO-Link	✓

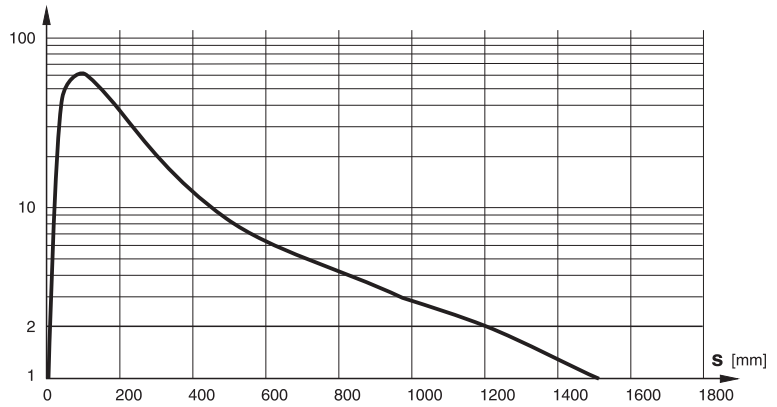
¹Object with 90% reflectance (standard white paper)

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**

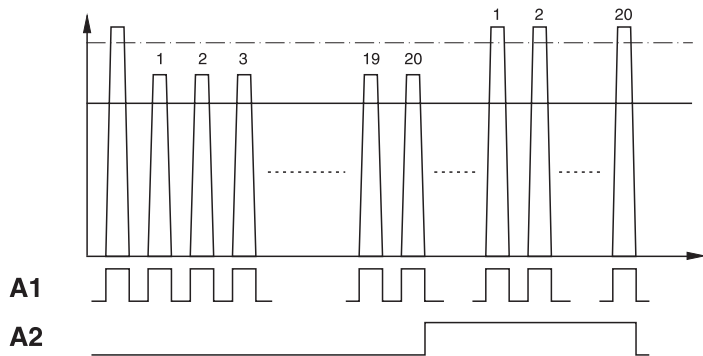
Target	Operating range	Sensing range max.
90%	5...1'200 mm	3...1'500 mm
18%	15...500 mm	10...700 mm
6%	40...300 mm	30...450 mm



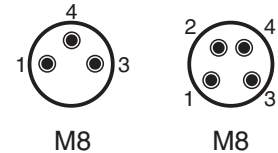
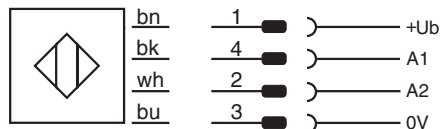
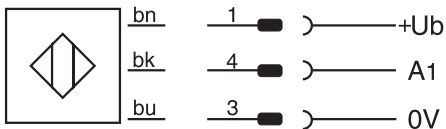
IO-LINK FUNCTIONALITIES **STABILITY ALARM OUTPUT (A2)**

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)
620 600 100	LTR-C23PA-PMK-403	PNP	PVC, 2 m, 3-wire	Light-on/IO-Link	-
620 600 101	LTR-C23PA-PMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 102	LTR-C23PA-PMK-60C	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Stability alarm
620 600 103	LTR-C23PA-PMK-301	NPN	PVC, 2 m, 3-wire	Light-on	-
620 600 104	LTR-C23PA-PMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 105	LTR-C23PA-PMK-10A	NPN	PVC, 2 m, 4-wire	Light-on	Stability alarm
620 600 106	LTR-C23PA-PMS-403	PNP	Connector M8 3-pin	Light-on/IO-Link	-
620 600 107	LTR-C23PA-PMS-603	PNP	Connector M8 4-pin	Light-on/IO-Link	Dark-on
620 600 108	LTR-C23PA-PMS-60C	PNP	Connector M8 4-pin	Light-on/IO-Link	Stability alarm
620 600 109	LTR-C23PA-PMS-301	NPN	Connector M8 3-pin	Light-on	-
620 600 110	LTR-C23PA-PMS-101	NPN	Connector M8 4-pin	Light-on	Dark-on
620 600 111	LTR-C23PA-PMS-10A	NPN	Connector M8 4-pin	Light-on	Stability alarm

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

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