

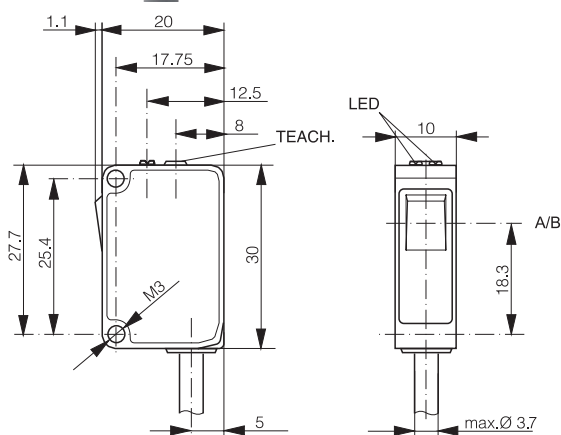
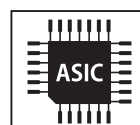


PHOTOELECTRIC SENSOR TRANSPARENT REFLEX TRU-C23PA-TM

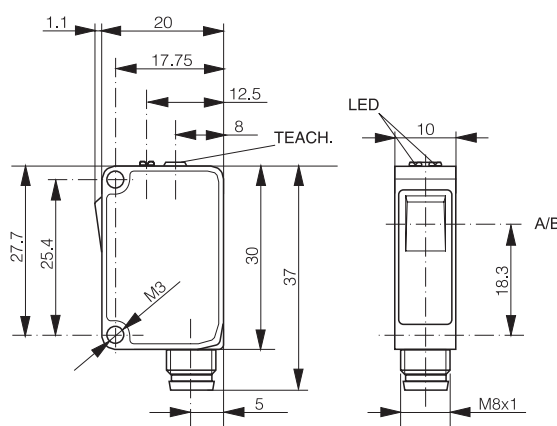


1'200 mm

- ✓ UV technology
- ✓ Autocollimation optics
- ✓ Polarizing filter
- ✓ IO-Link
- ✓ Sensitivity adjustment via teach button or IO-Link
- ✓ Miniature housing



A: emitter axis B: receiver axis



A: emitter axis B: receiver axis

OPTICAL DATA		INTERFACE	
Sensing range typ. max.	0...1'200 mm ¹	Sensitivity adjustment	40...1'200 mm, teach or IO-Link
Operating range	0...1'000 mm ¹	Indicator LED, green	Excess gain
Light source	LED, UV 275 nm, Risk Group 2 ²	Indicator LED, yellow	Sensing state
Light spot size (distance)	8x12 mm ² (0.1 m)/24x36 mm ² (0.5 m)	IO-Link	✓
Polarizing filter	✓		

¹Reference reflector LXU-0000-084

²According to EN 62471

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U _b)	15...30 VDC	Enclosure rating	IP67
Residual ripple	≤ 10% V _{pp}	Ambient temperature operation	-25...+55°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)	5 g
Signal NPN high/low	Approx. U _b /≤ 2.0 V	Weight (cable version)	41 g
Power consumption (no load)	≤ 15 mA	Housing material	ABS
Response time ¹	≤ 500 μs (normal)/≤ 1 ms/≤ 200 μs	Window material	PMMA
Switching frequency ¹	≤ 1 kHz (normal)/≤ 500 Hz/≤ 2.5 kHz	Connection cable	PVC, 2 m, 4-wire
Short circuit protection	✓	Connector type	M8 4-pin
Voltage reversal protection	✓		

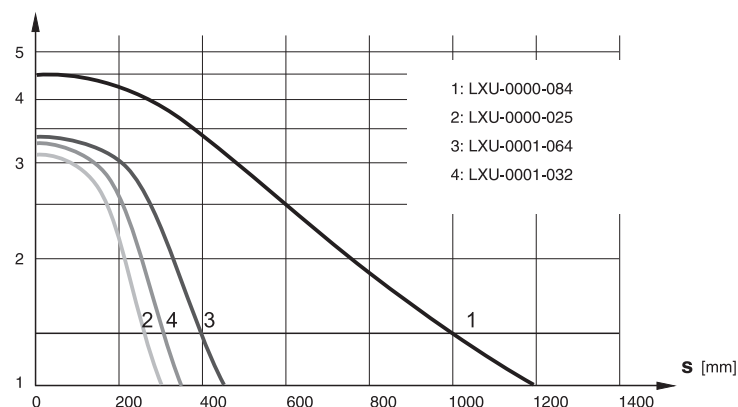
¹By default, "Normal" mode. "Fine" and "Fast" modes selectable via IO-Link.

SENSING RANGE

EXCESS GAIN

Target	Operating range	Sensing range typ. max.
LXU-0000-084	0...1'000 mm	0...1'200 mm
LXU-0000-025	0...300 mm ¹	0...350 mm ¹
LXU-0001-064	0...400 mm ¹	0...450 mm ¹
LXU-0001-032	0...250 mm ¹	0...300 mm ¹

¹Indicative value

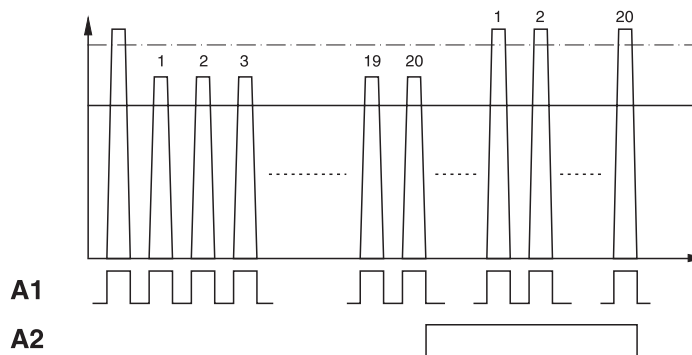


IO-LINK FUNCTIONALITIES

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, 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)

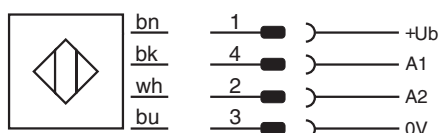


A1

A2

WIRING DIAGRAM

PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output (A1)	Output (A2)
620 600 312	TRU-C23PA-TMK-603	PNP	PVC, 2 m, 4-wire	Light-on/IO-Link	Dark-on
620 600 313	TRU-C23PA-TMK-60D	PNP	PVC, 2 m, 4-wire	Dark-on/IO-Link	Stability alarm
620 600 314	TRU-C23PA-TMK-101	NPN	PVC, 2 m, 4-wire	Light-on	Dark-on
620 600 315	TRU-C23PA-TMK-10B	NPN	PVC, 2 m, 4-wire	Dark-on	Stability alarm
620 600 316	TRU-C23PA-TMS-603	PNP	Connector M8 4-pin	Light-on/IO-Link	Dark-on
620 600 317	TRU-C23PA-TMS-60D	PNP	Connector M8 4-pin	Dark-on/IO-Link	Stability alarm
620 600 318	TRU-C23PA-TMS-101	NPN	Connector M8 4-pin	Light-on	Dark-on
620 600 319	TRU-C23PA-TMS-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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