POLARISED RE TROREFLEX MINIATURE SENSOR (LASER EMISSION)

B 929 L S

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CE

- Sensing distance on reflector: 0.1 to 1 M
- Supply: 10 to 30 VDC
- Output: PNP
- Teach-in

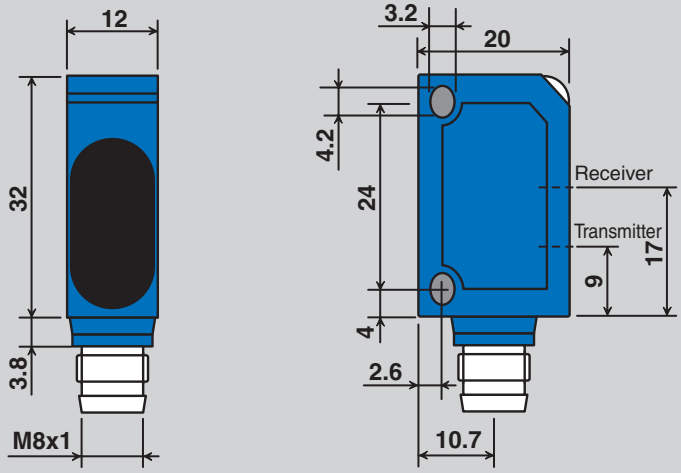
Description:

- Miniaturised
- Integrated amplifier
- Detection indication by LED
- Red pulsed visible light
- Laser class 2
- Direct / inverse output
- Remote teach-in
- Functions lock
- Dirty indicator
- ABS housing
- M8 connector

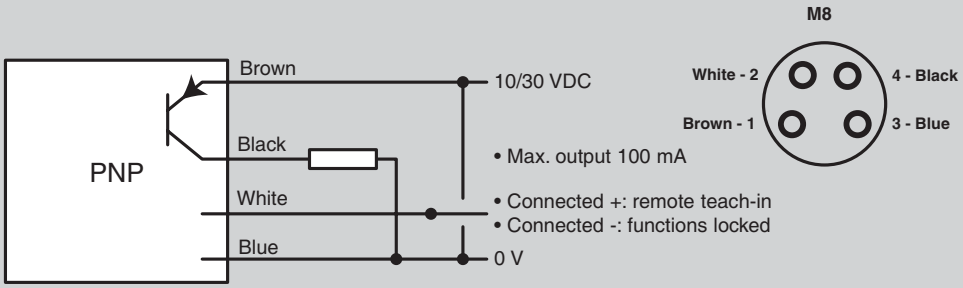
Applications:

- Small pieces control on manufacturing machines
- Sensors positioning where space is limited

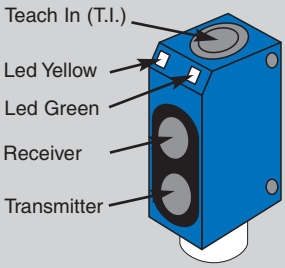
Dimensions



Wiring Connections



Visualisation and Adjustment



Teach-in: (Both yellow and green LEDs are ON)
1: When set face to the object, hit 3 s T.I.: both LEDs flash
2: Take off the object (to teach the background), hit 1 s T.I.: the green LED flashes then remains ON (teach-in over)

Lo/Do
1: During 13 s, hit T.I.: the 2 leds flash alternatively (as soon as T.I. is freed, the green led stays ON)
2: Each hit on T.I. modifies the output state: (Lo, Do, Lo, Do…). (If there is no hit during 10 s on T.I., the present state is memorised, the green led turns OFF)

Yellow led: (detection led) output state
Green led: supply ON or dirtiness detection (if led OFF)

Remark: the LED turns OFF only if the object is detected, as well as in direct or inverse mode.

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Technical Information

Supply	voltage	10 / 30 VDC ripple < 10% within specified limits
	consumption	25 mA
Response time	switching frequency	1000 Hz
Output	max. nominal current	100 mA
	residual voltage	2.4 V
Emission	Red laser LED pulsed (class 2)	T pulse = 3 µs, impulse frequency = 5 KhZ wave length = 655 nm
	minimum spot	< 0.7 mm
Temperature	operating	- 20° to 60° C
	storage	- 20° to 80° C
External light immunity		5 000 Lux
Protections	supply	inverse polarity protection
	output	permanent short-circuit or over-load
	degree	IP 67

Visible laser radiation: do not look at the beam. Class 2 laser appliance.

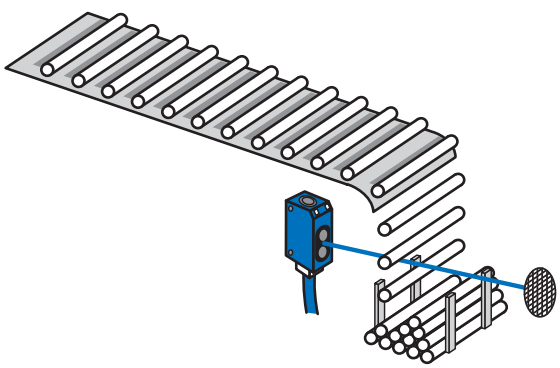
To place order

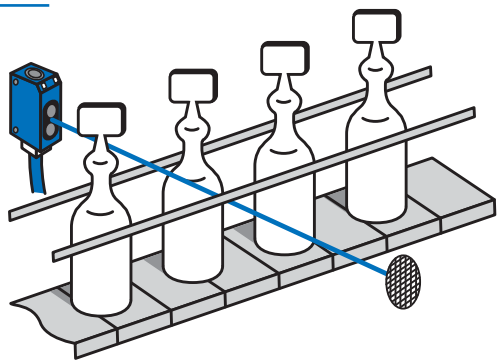
Product			**Reference**
• Polarised retroreflex miniature sensor (PNP) (laser emission)		- connector M8 output	B C0 929 L SP
• Cable for connector M8	- length 2 m	- straight	CM 82
		- 90° angle	CM 82 C
	- length 5 m	- straight	CM 85
		- 90° angle	CM 85 C
• Reflector (for laser emission)		- 50x10	1116
		- 50x50	1111
• Bracket			929
• Protection bracket	- axial fixation		929-1
	- low lateral fixation		929-2

TYPE OF APPLICATIONS

Example 1

Counting parts from a conveyor.





Example 2

Pharmaceutical flacons detection.

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