

Overview

- Sensor for safe monitoring of the carton supply on packaging machines
- Use with miniature control unit PNOZmulti 2 or safety relay myPNOZ
- Uniquely reliable and extremely insensitive to ambient light



Picture similar



Technical data

General data

Type	Background suppression
Sensing distance T_w	550 mm
Sensing range T_b	60 ... 550 mm
Power on indication	LED green
Alignment / soiled lens indicator	Flashing output indicator
Light indicator	LED yellow
Sensing distance adjustment	No
Suppression of reciprocal influence	Yes
Alignment optical axis	< 1°

Light Source

Light source	Pulsed red LED
Wave length	630 nm

Electrical data

Response time / release time	< 2.4 ms
Voltage supply range +Vs	10 ... 33 VDC
Current consumption max. (no load)	40 mA (@ 10 VDC)

Electrical data

Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop V_d	<2.5 VDC
Output function	Light operate
Output circuit	Push-pull
Output current	100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	18 mm
Height / length	45 mm
Depth	32 mm
Design	Rectangular
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Connector M12 4 pin

Ambient conditions

Protection class	IP 67
Operating temperature	-25 ... +60 °C
Storage temperature	-40 ... +70 °C

Remarks

- Max. operating altitude above sea level: 2000m

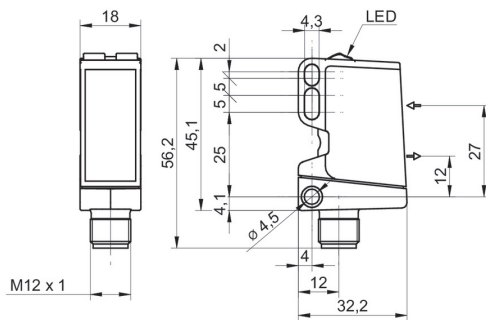
Remarks

EMC requirements: Emission/immunity for proximity switches according to product standard IEC 60947-5-2

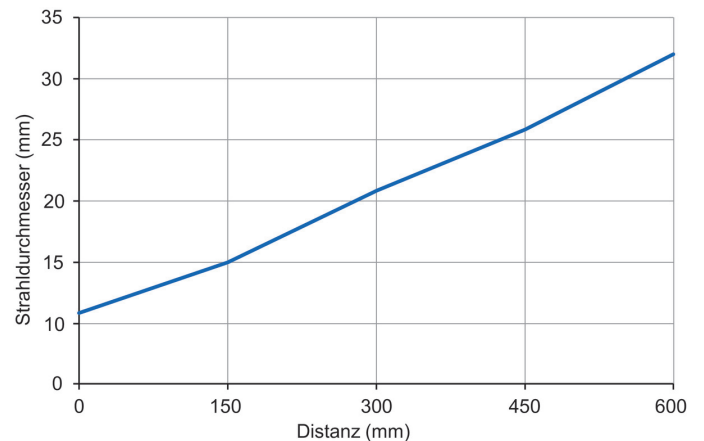
Environmental requirements for proximity switches according to product standard IEC 60947-5-2

Environment influence	Basic standard	Required test severity (standard)	Extended test severity (Baumer)
protection class	IEC 60529	IP54	IP 67
Vibration, sinusoidal	IEC 60068-2-6	10 - 55 Hz, Ampl.: 0.5 mm 30 min per axis	10 - 57 Hz, Ampl.: 1.5 mm 58 - 2000 Hz, 10g 10 cycles of 15 min per axis
Shock / Bump	IEC 60068-2-27	30 g / 11 ms, 6 pulses per axis and direction	50g / 11 ms, 100g / 6 ms, 10 pulses per axis and direction 100g / 2 ms, 5000 pulses per axis and direction

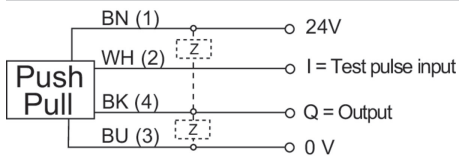
Dimension drawing



Beam characteristic (typically)



Connection diagram



Pin assignment

