

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
- Baumer PinPoint LED: Small, homogeneous light spot with sharp edges
- Robust stainless steel housing in washdown design



Picture similar



Technical data

General data

Type	Background suppression
Special type	Washdown design
Sensing distance Tw	100 mm
Sensing range Tb	30 ... 100 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	< 2°
Approvals/certificates	CE UL ProTect+ UKCA Ecolab

Light Source

Light source	Pulsed PinPoint LED
Wave length	630 nm

Electrical data

Response time / release time	< 2.4 ms
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Electrical data

Voltage supply range +Vs	10 ... 33 VDC
Current consumption max. (no load)	40 mA (@ 10 VDC)
Current consumption typ.	16 mA (@ 24 VDC)
Voltage drop Vd	<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	16.5 mm
Height / length	34.7 mm
Depth	28.2 mm
Type	Rectangular
Housing material	Stainless steel 1.4404 (V4A)
Front (optics)	PMMA
Connection types	Connector M8 4 pin

Ambient conditions

Protection class	IP 68/69 & proTect+
Operating temperature	-25 ... +60 °C
Storage temperature	-40 ... +70 °C

Remarks

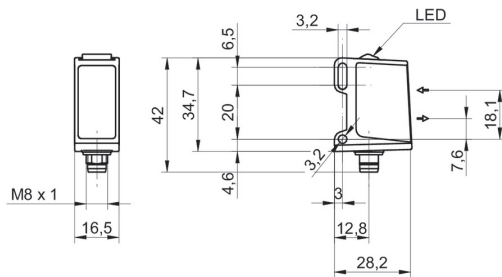
- Max. operating altitude above sea level: 2000m
- Tightening torque max. 0.6 Nm (M8 connector)
- Tightening torque max. 0.8 Nm (Fixing holes)

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

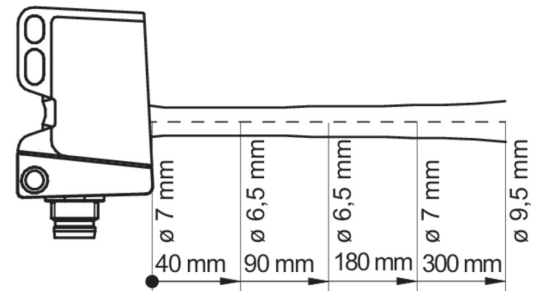
Environmental requirements for proximity switches according to product standard IEC 60947-5-2

Environment influence	Basic standard	Required test severity (standard)	Extended test severity (Baumer)
protection class	IEC 60529	IP 54	IP 68/69
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

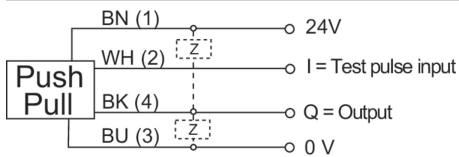
Dimension drawing



Beam characteristic (typically)



Connection diagram



Pin assignment

