

O200.GP-11729705

Diffuse sensors with background suppression

Article number: 11729705

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



Picture similar



Technical data

General data

Type	Background suppression
Sensing distance Tw	160 mm
Sensing range Tb	10 ... 160 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	< 1,5°

Light Source

Light source	Pulsed PinPoint LED
Wave length	644 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 Vd	<2.5 VDC
Output function	Light operate
Output circuit	Push-pull
Output current	50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	8 mm
Height / length	25.1 mm
Depth	15.8 mm
Design	Rectangular
Mechanical mounting	Sleeve smooth (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0.08 mm ²

Ambient conditions

Protection class	IP 67
Operating temperature	-25 ... +50 °C
Storage temperature	-40 ... +70 °C

Remarks

- Max. operating altitude above sea level: 2000m

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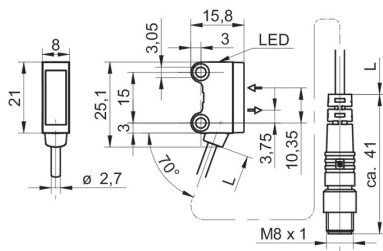
Remarks

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

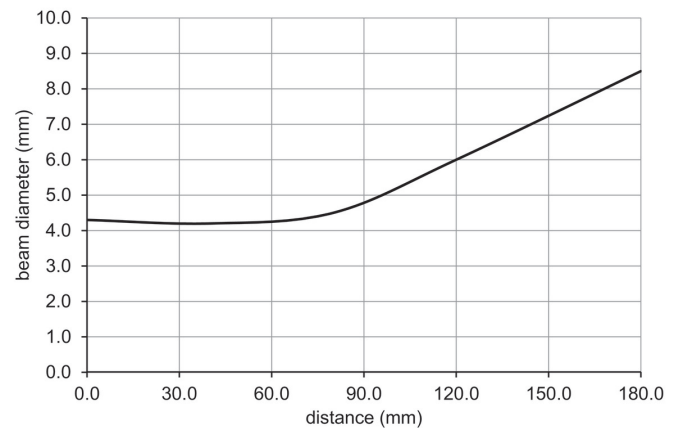
Environmental requirements for proximity switches according to product standard IEC 60947-5-2

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

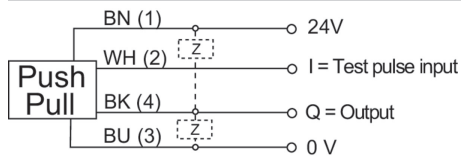
Dimension drawing



Beam characteristic (typically)



Connection diagram



Pin assignment

