

Overview

Product information



Background suppression sensor DPB-B30N-B-30160000020

Detection method: background suppression diffuse reflection, detection distance: white paper: 2~300mm, output method: NPN collector open circuit, repeatability: ≤5%

Product advantages

- ☑ High-precision optical lens, the light spot is clearer and brighter, eliminating stray light interference
- ☑ Dynamic filtering algorithm to achieve the best detection effect in various environments
- ☑ 6-turn potentiometer to achieve precise adjustment of the knob
- ☑ With close side-by-side installation and front-to-front installation technology

Product certification

Technical data

Product drawing

3D model

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Electrical data

Switch mode	L.on (light-incoming action) / D.on (light-blocking action) switchable
Output mode	NPN open collector
Response time	≤1.5ms
Switching frequency	/
Operating voltage	10~30V DC
Current consumption	≤20mA
Residual voltage	≤1.5V (100mA)
Load current	≤100mA

Insulation resistance	≥50MΩ (500VDC)
Pressure resistance	≤0.1mA (1000V AC)
Protection circuit	Reverse polarity protection/surge protection/short circuit protection/interference light protection

Environmental parameters

Storage temperature	-30~70℃ (no freezing)
Working environment humidity	35~85%RH (no condensation)
Storage humidity	35~95%RH (no condensation)
Ambient illumination	Incandescent lamp ≤3000 Lux; Sunlight ≤10000 Lux
Vibration resistance	10~55Hz, 1.5mm amplitude, 2 hours each in X, Y, and Z directions
Protection level	IP67
Operating temperature	-25~55℃ (no freezing)

Basic parameters

How it works	Photoelectric sensors
Shell style	Square
Optical working principle	Background suppression diffuse reflection
Detection distance	White paper: 2~300mm
Light source	Blue LED 465nm (modulated)
Indicator lights	Working indicator light: green; Action indicator light: red

Mechanical parameters

Connection	2m/4-core cable
Size	11.0x31.0x20.0mm
Weight	0.045kg
Material	PBT+glass fiber

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Business data	
Order number	30160000020
Packing unit	1
Minimum order quantity	1
Products weight (without packaging)	0.045kg