

Overview

Product information



Background suppression sensor DPB-B15N-S-3016000016

Detection method: background suppression diffuse reflection, detection distance: 2~150mm, output method: NPN open collector

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	≤1ms
Switching frequency	/
Operating voltage	10~30V DC
Current consumption	≤25mA
Residual voltage	≤1.5V
Load current	≤100mA
Insulation resistance	20MΩ

Pressure resistance	1000VAC (50/60Hz), 1 minute between power terminals and case
Protection circuit	Reverse polarity protection/surge protection/short circuit protection

Environmental parameters

Storage temperature	-30~70℃
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	10~50Hz, 0.5mm amplitude, 2 hours in each of the three directions of X, Y and Z
Protection level	IP67
Operating temperature	-25~55℃

Basic parameters

How it works	Photoelectric sensors
Shell style	Square
Optical working principle	Background suppression diffuse reflection
Detection distance	2~150mm
Light source	Red LED 660nm (modulated)
Indicator lights	Working indicator light: green; Action indicator light: red

Mechanical parameters

Connection	2M/4 core cable 4mm diameter
Size	31*20*11mm
Weight	0.05kg
Material	PBT+glass fiber (shell); PMMA (lens)

Accessories

Business data

Order number	30160000016
Packing unit	1
Minimum order quantity	1
Products weight (without packaging)	0.05kg