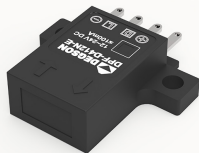


Overview

Product information



Flat sensor DPF-D412N-E-30160000009

Detection method: diffuse reflection, detection distance: 40mm, output method: NPN open collector, repeatability: 5%

Product advantages

- ☒ Multiple detection modes such as head sensing and front sensing
- ☒ L.on (light-incoming action)/D.on (light-blocking action) switchable
- ☒ Long-distance detection up to 40mm (white cardboard)

Product certification

Technical data

Product drawing

3D model

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	2kHz
Operating voltage	12~24V DC
Current consumption	≤25mA
Residual voltage	<2.5V (load current is 100mA)
Load current	≤100mA (24VDC)
Insulation resistance	Between power terminal and housing ≥50MΩ (500VDC)

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

Environmental parameters

Storage temperature	-25~80℃ (no freezing)
Working environment humidity	45~85%RH (no condensation)
Storage humidity	35~90%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	IP50
Operating temperature	-20~50℃ (no freezing)

Basic parameters

How it works	Photoelectric sensors
Shell style	Flat square
Optical working principle	Diffuse
Detection distance	40mm
Light source	Infrared light 850nm
Indicator lights	Running status: Green LED

Mechanical parameters

Connection	4-pin connector
Size	26.0x20.0x9.0mm
Weight	0.003kg
Material	PC

Accessories

Business data	
Order number	30160000009
Packing unit	1
Minimum order quantity	1
Products weight (without packaging)	0.003kg