

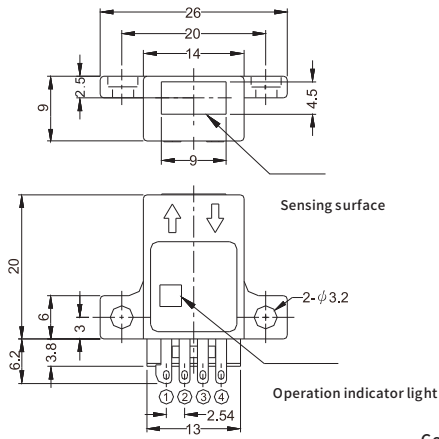
DPF Series



Model	
NPN	DPF-D412N-E
PNP	DPF-D412P-E
Basic Features	
Working principle	PhotoelectricSensors
Enclosure style	Flatsquare
How optics work	Reflection
Detection distance	40mm
Spot size	N/A (Infrared)
Detection	/
Light source	Infrared light 850nm
Light	Operational status: Green LED
Sensitivity regulation	None
Electrical Data	
Switch mode	Light.on (light action) / Dark.on (light shading action) can be switched
Output mode	NPN or PNP open collector
Response time	≤ 1ms
Switching frequency	2 kHz
Repeatability	5%
Hysteresis (Return/ Response)	≤20%
Operating voltage	12~24V DC
Current consumption	≤25mA
Residual voltage	<2.5V
Load current	≤100mA (24VDC)
Insulation resistance	Between power terminal and housing ≥20MΩ (500VDC)
Resistance	1000VAC (50/60Hz), 1 minute between power terminal and housing
Protection circuits	Reverse polarity protection/short circuit protection
Environmental Conditions	
Operating ambient temperature	-20~55°C (no freezing)
Storage temperature	-25~80°C (no freezing)
Humidity of the working environment	45~85%RH (no condensation)
Store humidity	35~90%RH (no condensation)
Ambient illumination	Incandescent lamp≤ 3000 Lux; Sunlight ≤ 10000 Lux
Anti vibration-	10~55Hz, 1.5mm amplitude, XYZ 3 directions for 2 hours each
Ingress protection	IP50
Mechanical Data	
Maximum tightening torque	≤ 0.5Nm
Connection	4-pin connector
Size	26.0x20.0x9.0mm
Material	PC
Weight	0.003kg
Fittings	Mountingscrews

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Dimensions

DPF-D412N(P)-E


Unit: mm

- ①: ● Brown
- ②: ● OUT1 White
- ③: ● OUT2 Black
- ④: ● Blue

 ME-1007
 Connecting cable: ME-1007

Wiring Diagram

DPF-D412N(P)-E
