Plastic square shape photoelectric sensors **PSF** series



Features

- ◆ Diffuse reflection working principle;
- ◆Excellent anti-interference performance
- ◆High detection accuracy

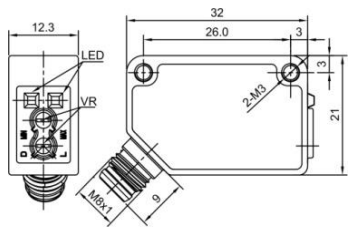
Part number

NPN	NO	PSF-BC30DNO-E1	PSF-BC80DNO-E1	PNP	NO	PSF-BC30DPO-E1	PSF-BC80DPO-E1
NPNNC		PSF-BC30DNC-E1	PSF-BC80DNC-E1	PNP	NC	PSF-BC30DPC-E1	PSF-BC80DPC-E1
NPN	NO/NC	PSF-BC30DNB-E1	PSF-BC80DNB-E1	PNP	NO/NC	PSF-BC30DPB-E1	PSF-BC80DPB-E1

Technical specifications

Detection type	Diffuse reflection	Consumption current	≤25mA
Rated distance [Sn]	30cm(adjustable)80cm (adjustable)	Circuit protection	Short-circuit, overload and reverse polarity
Standard target	White card reflection rate 90%	Response time	< 1ms
Light source	Red LED(660nm) Infrared LED (880nm)	Output indicator	Power: Green LED Output: Yellow LED
Dimensions	32 mm *21 mm *12.3 mm	Ambient temperature	-15℃…+55℃
Output	NO/NC (depends on part No.)	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	12…24 VDC	Voltage withstand	1000V/AC 50/60Hz 60s
Target	Opaque object	Insulation resistance	≥50MΩ(500VDC)
Hysteresis range [%/Sr]	3…20%	Vibration resistance	10…50Hz (0.5mm)
Repeat accuracy [R]	⩽5%	Degree of protection	IP67
Load current	⩽100mA	Housing material	PC/ABS
Residual voltage	⩽2.5V	Connection type	M8 Connector

Dimensions



Wiring diagram

