

Cylindrical

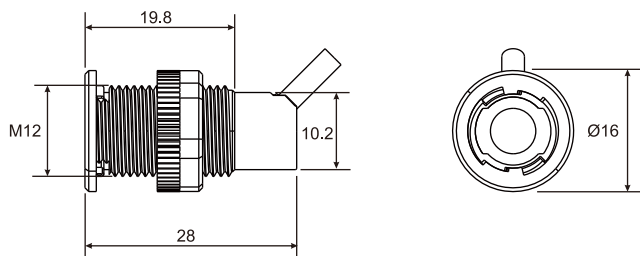
PSM12 Series



Appearance	
Sensing type	Through beam
Sensing distance	5m
Light source	Infrared LED
Detected object	opaque object, $\phi > 8\text{mm}$
Output	NPN / PNP for option
Switch type	Light on/ Dark on selectable
Response time	<2ms
Indicators	Power: Green, Operation indicator: Orange
Power supply	12~24V DC $\pm 10\%$ Ripple P-P10% or less
Residual voltage	< 1 V (When input current is equal to 50 mA)
Current consumption	Emitter < 18 mA, Receiver < 15 mA
Load current	<50mA
Circuit protection	Short circuit protection
Ambient temperature	Operation: $-25\sim 55^{\circ}\text{C}$; storage: $-30\sim 70^{\circ}\text{C}$, no freezing
Ambient humidity	Operation: 30~90% RH, storage: 35~85% RH, no condensation
Degree of protection	IP67
Material	Housing, lens: PC
Connection	Emitter: 2m 2 core cable; Receiver: 2m 2 core cable
Weight	Approx. 25g
Model No.	NPN PNP PSM12-TM05NO PSM12-TM05PO PSM12-TM05NC PSM12-TM05PC

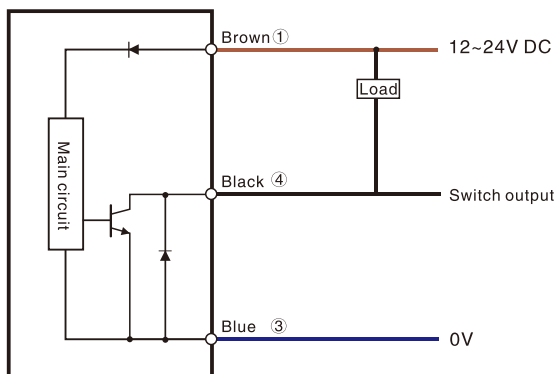
Dimensions

Unit: mm

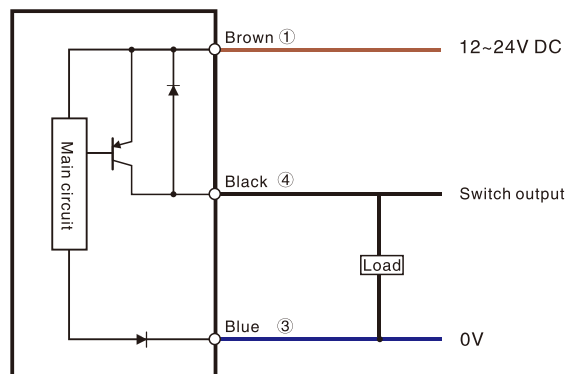


Circuit diagram

NPN Output



PNP Output





NEW!

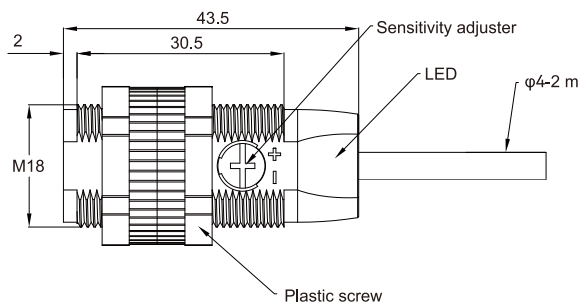
Appearance	
Sensing type	Diffuse reflective
Sensing distance	10~40 cm (adjustable)
Light source	Red light LED
Detected object	opaque object, $\phi > 7$ mm
Output	NPN / PNP for option
Switch Type	Light on/ Dark on selectable
Indicators	Power: Green, Operation indicator: Red
Power supply	10~30V DC
Residual voltage	<1.5V
Current consumption	<25mA
Load current	<120mA
Response time	<2ms
Circuit protection	reverse polarity protection, short circuit protection
Ambient temperature	-15~55°C, no freezing
Ambient humidity	35~90% RH, no condensation
Ambient illuminance	LED ≤ 450 Lux
Withstand voltage	± 1000 V 50/60Hz 60s
Static electricity	± 8000 V
Group pulse	± 2000 V 5KHz/100KHz
Anti-vibration	10~50Hz, amplitude 0.5mm; 2 hours each in X, Y, Z directions
Degree of protection	IP67
Material	PC
Connection	2m 4 wire cable
Model No.	NPN PSM18-D40N
	PNP PSM18-D40P

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories

Guidance

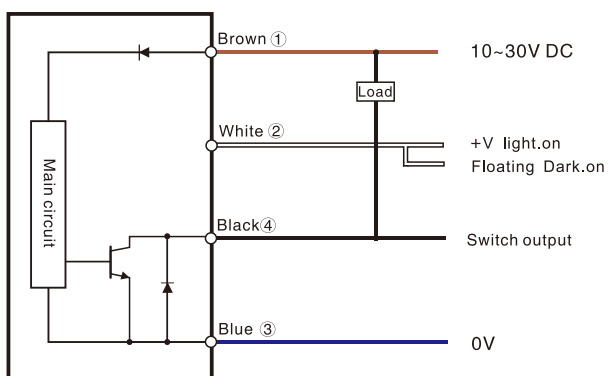
Dimensions

Unit: mm

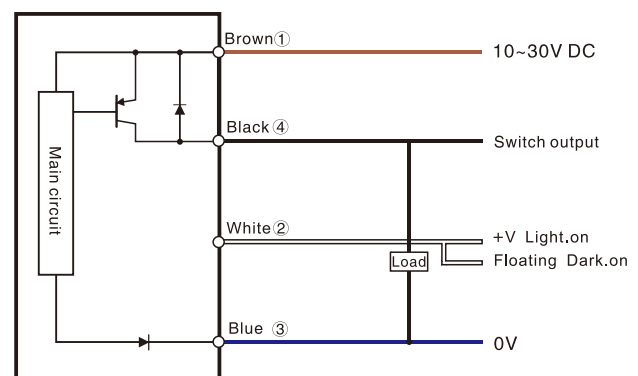


Circuit diagram

NPN Output



PNP Output



Photoelectric

Cylindrical

Square

Flat type

Thin type

BGS

Transparent detection

Color/Mark Detection

TOF type

IP69K high protection type

Anti-glare type

IO-Link type

Reflectors

Reflectors