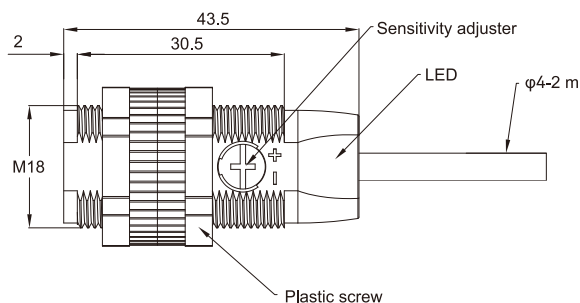


Cylindrical

PSM18 Series

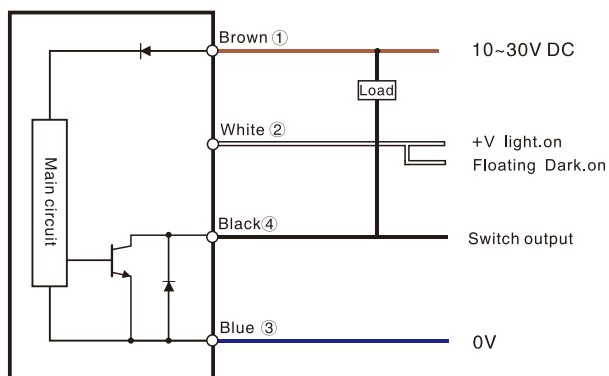


Basic Features	Working Principle	Photoelectric Sensor
	Housing Style	Cylindrical
	Optical Working Principle	Diffuse Reflection
	Detection Range	100~400mm
	Spot Size	Ø36.0mm/0.40m
	Detected Object	7mm
	Light Source	Red LED
	Indicator Light	Power Status: Green LED, Operation Status: Red LED
	Sensitivity Adjustment	1-turn Potentiometer
Electrical data	Switching Mode	L.on (light-on action)/D.on (dark-on action) switchable
	Output Mode	NPN or PNP collector open
	Response Time	2ms
	Switching Frequency	1 kHz
	Repeatability	5%
	Hysteresis	≤20%
	Operating Voltage	10~30V DC
	Current Consumption	≤25mA
	Residual Voltage	≤1.5V(120mA)
	Load Current	≤120mA(30VDC)
	Insulation Resistance	Insulation Resistance between Power Terminal and Housing ≥ 50MQ (500VDC)
	Withstand Voltage	1000VAC (50/60Hz), 1 Minute between Power Terminal and Housing
	Protection Circuit	Reverse Polarity Protection/Short Circuit Protection
Environmental conditions	Operating Temperature	-15~55°C(No Freezing)
	Storage Temperature	-25~80°C(No Freezing)
	Operating Humidity	30~90%RH(No Condensation)
	Storage Humidity	35~95%RH(No Condensation)
	Ambient Light	Incandescent Lamp ≤ 3000 Lux; LED Lamp ≤ 3000 Lux; Sunlight ≤ 10000 Lux
	Vibration Resistance	10~50Hz, amplitude 0.5mm, 2 hours each in X/Y/Z axes
	Protection Rating	IP67
Mechanical data	Maximum Tightening Torque	-
	Connection Method	2m/4-core Cable
	Dimensions	M18X43.5mm
	Material	PC
	Weight	0.05kg
	Accessories	Nut M18x1
Model	NPN	PSM18-D40N
	PNP	PSM18-D40P

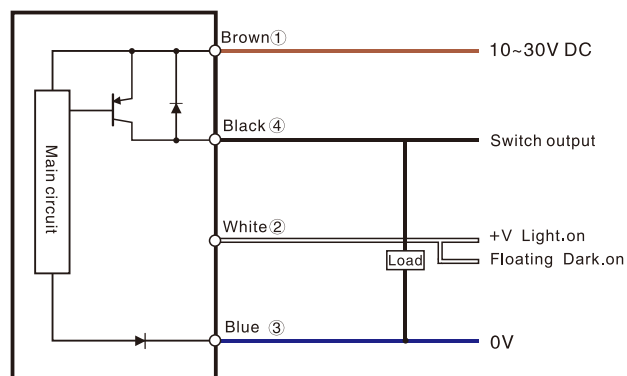


Circuit diagram

NPN Output



PNP Output



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Photoelectric

Cylindrical

IP69K high protection type

Square

Flat type

Thin type

BGS

Color/Mark Detection

TOF type

Reflectors

Reflectors