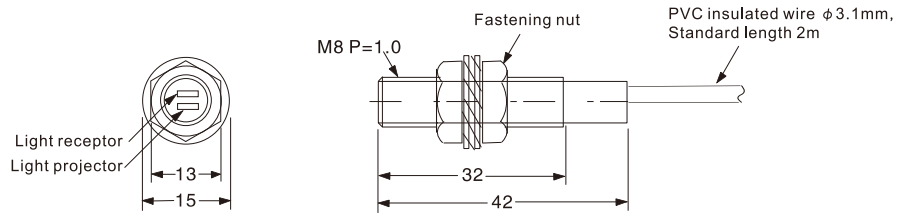


Cylindrical

PM08 Series

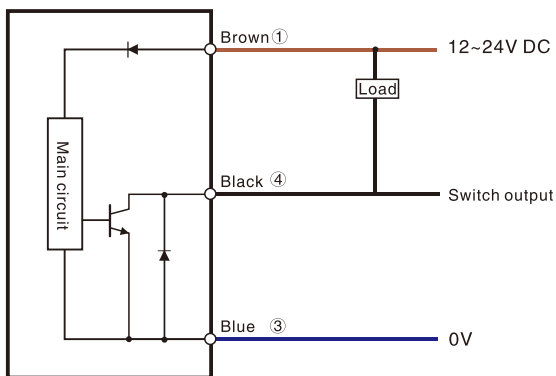


Basic Features	Working Principle	Photoelectric Sensor
	Housing Style	Cylinder Shape
	Optical Working Principle	Diffuse Reflection
	Detection Range	30mm (White paper 30x30mm)
	Spot Size	Not Applicable (Infrared Light)
	Detected Object	White paper 30x30mm
	Light Source	Infrared Light 940nm
	Indicator Light	No Display
	Sensitivity Adjustment	None
Electrical data	Switching Mode	Light.on(light-on action)
	Output Mode	NPN or PNP collector open
	Response Time	3ms
	Switching Frequency	0.67kHz
	Repeatability	5%
	Hysteresis	≤20%
	Operating Voltage	12~24V DC±10%
	Current Consumption	≤30mA
	Residual Voltage	≤2.0V(50mA)
	Load Current	50mA
	Insulation Resistance	Insulation Resistance between Power Terminal and Housing ≥ 20MΩ (500VDC)
	Withstand Voltage	500VAC (50/60Hz), 1 Minute between Power Terminal and Housing
	Protection Circuit	Short Circuit Protection/Reverse Polarity Protection/Protection against Mutual Interference
Environmental conditions	Operating Temperature	-25~+55℃(no freezing)
	Storage Temperature	-30~+70℃(no freezing)
	Operating Humidity	30~85%RH(no condensation)
	Storage Humidity	35~95%RH(no condensation)
	Ambient Light	Incandescent light ≤3000 Lux; LED light ≤1000 Lux; Sunlight ≤10000 Lux
	Vibration Resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X/Y/Z axes
	Protection Rating	IP65
Mechanical data	Maximum Tightening Torque	—
	Connection Method	2m/3-core Cable
	Dimensions	M8x42.0mm
	Material	Stainless Steel
	Weight	about 0.08kg
	Accessories	Nut M8x1
Model	NPN	PM08-D03NO
	PNP	PM08-D03PO

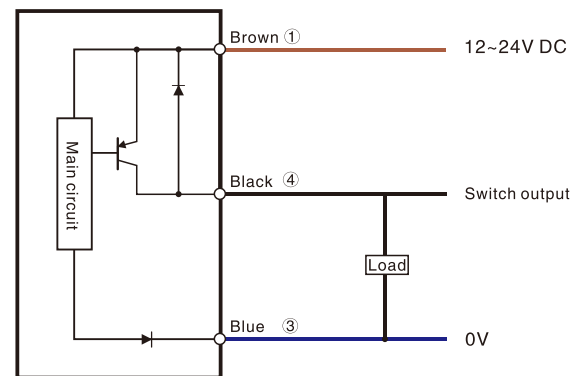


Circuit diagram

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

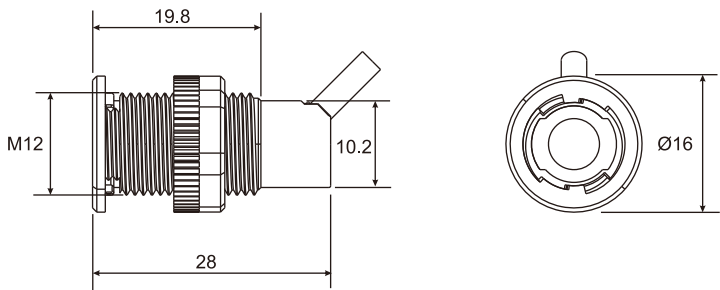
Reflectors

Cylindrical

PSM12 Series

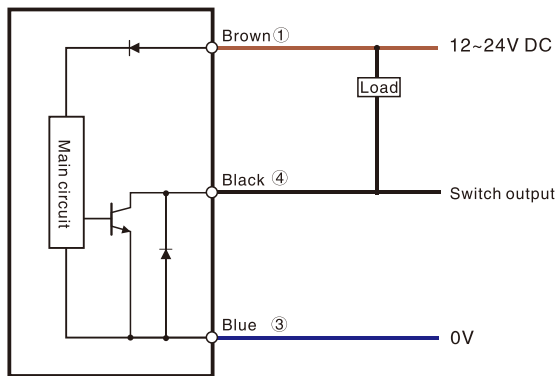


Basic Features	Working Principle	Photoelectric Sensor	
	Housing Style	Cylindrical	
	Optical Working Principle	Through-beam	
	Detection Range	5000mm	
	Spot Size	—	
	Detected Object	8mm	
	Light Source	Infrared Light	
	Indicator Light	Output Function: Orange LED, Operation Status: Green LED	
	Sensitivity Adjustment	None	
Electrical data	Switching Mode	L.on (light-on action)	D.on (dark-on action)
	Output Mode	NPN or PNP collector open	
	Response Time	2ms	
	Switching Frequency	1 kHz	
	Repeatability	—	
	Hysteresis	—	
	Operating Voltage	12~24V DC±10%	
	Current Consumption	Transmitter ≤ 18mA, Receiver ≤ 15mA	
	Residual Voltage	≤ 1.0V (50mA)	
	Load Current	≤ 50mA (24VDC)	
	Insulation Resistance	Insulation Resistance between Power Terminal and Housing ≥ 50MΩ (500VDC)	
	Withstand Voltage	1000VAC (50/60Hz), 1 Minute between Power Terminal and Housing	
	Protection Circuit	Short Circuit Protection/Reverse Polarity Protection	
Environmental conditions	Operating Temperature	-25~+55°C(No Freezing)	
	Storage Temperature	-30~+70°C(No Freezing)	
	Operating Humidity	35~85%RH(No Condensation)	
	Storage Humidity	30~90%RH(No Condensation)	
	Ambient Light	Incandescent Lamp ≤ 3000 Lux; LED Lamp ≤ 5000 Lux; Sunlight ≤ 10000 Lux	
	Vibration Resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X/Y/Z axes	
	Protection Rating	IP67	
Mechanical data	Maximum Tightening Torque	—	
	Connection Method	2M/2-core Rubber-insulated Flexible Cable (Emitter) 2M/3-core Rubber-insulated Flexible Cable (Receiver)	
	Dimensions	M12x28.0mm	
	Material	PC	
	Weight	0.025kg	
	Accessories	Nut M12	
Model	NPN	PSM12-TM05NO	PSM12-TM05NC
	PNP	PSM12-TM05PO	PSM12-TM05PC

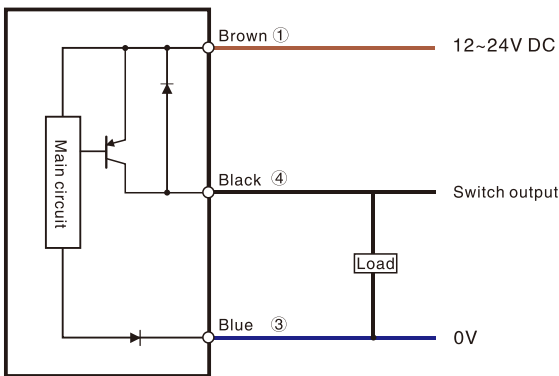


Circuit diagram

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

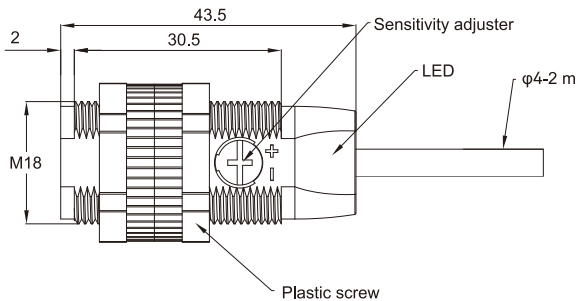
Reflectors

Cylindrical

PSM18 Series

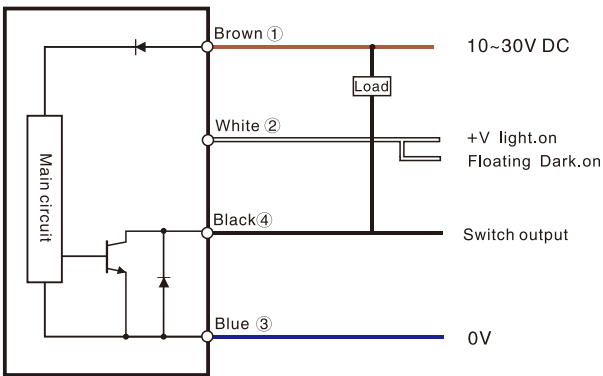


Basic Features	Working Principle	Photoelectric Sensor
	Housing Style	Cylindrical
	Optical Working Principle	Diffuse Reflection
	Detection Range	100~400mm
	Spot Size	Ø36.0mm/0.40m
	Detected Object	7mm
	Light Source	Red LED
	Indicator Light	Power Status: Green LED, Operation Status: Red LED
	Sensitivity 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

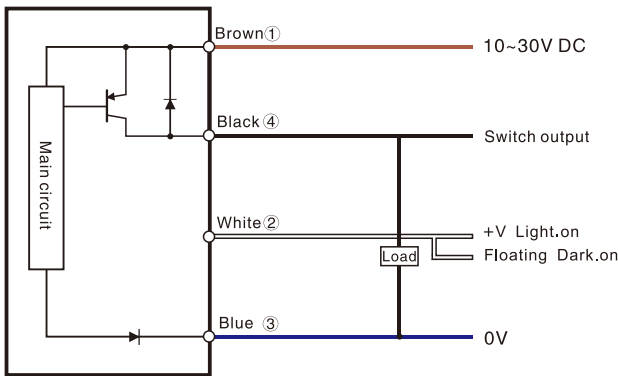


Circuit diagram

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

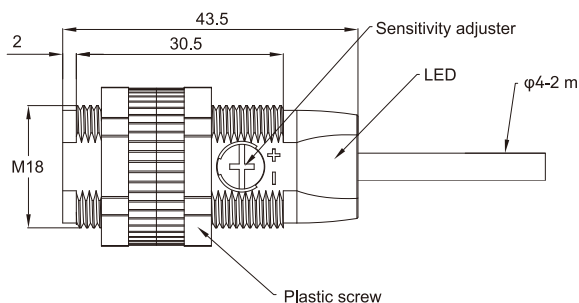
Reflectors

Cylindrical

PSM18 Series

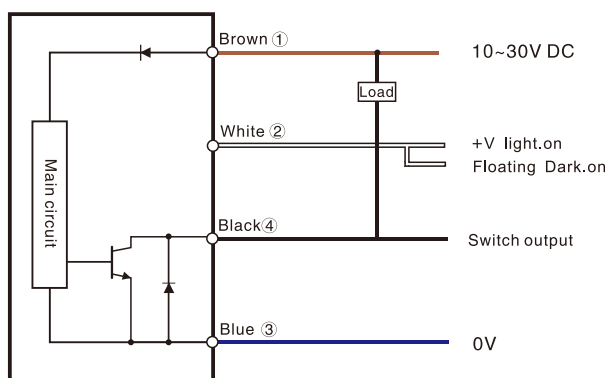


Basic Features	Working Principle	Photoelectric Sensor
	Housing Style	Cylindrical
	Optical Working Principle	Diffuse Reflection
	Detection Range	100~400mm
	Spot Size	Ø36.0mm/0.40m
	Detected Object	7mm
	Light Source	Infrared LED
	Indicator Light	Power Status: Green LED, Operation Status: Red LED
	Sensitivity 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 ≥ 50MΩ (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 ≤ 1000 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-DV40N
	PNP	PSM18-DV40P

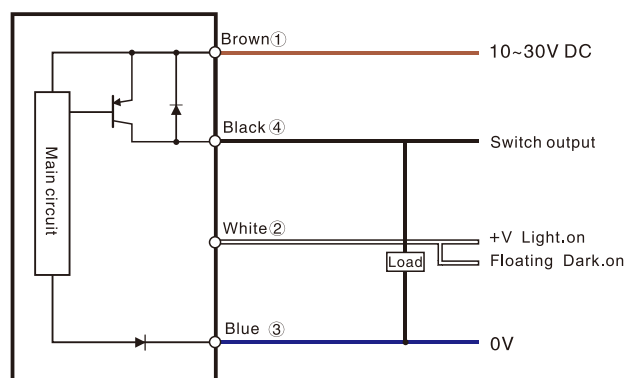


Circuit diagram

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

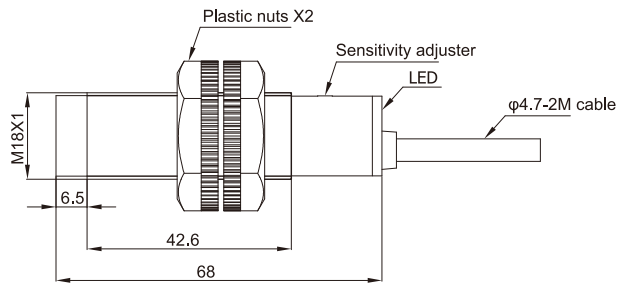
Reflectors

Cylindrical

PXM18 Series

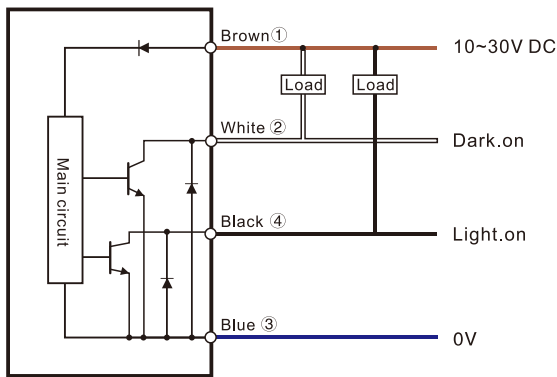


Basic Features	Working Principle	Photoelectric Sensor	
	Housing Style	Cylindrical	
	Optical Working Principle	Diffuse Reflection	
	Detection Range	100mm	400mm
	Spot Size	Ø8.0mm/0.10m	Not Applicable (Infrared Light)
	Detected Object	-	
	Light Source	-	
	Indicator Light	Power Status: Green LED, Operation Status: Red LED	
	Sensitivity Adjustment	Multi-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	20ms	
	Switching Frequency	0.1 kHz	
	Repeatability	5%	
	Hysteresis	≤10%	
	Operating Voltage	10~30V DC±10%	
	Current Consumption	≤30mA	
	Residual Voltage	≤2V(100mA)	
	Load Current	≤100mA(30VDC)	
	Insulation Resistance	Insulation Resistance between Power Terminal and Housing ≥ 50MΩ (500VDC)	
	Withstand Voltage	1000VAC (50/60Hz), 1 Minute between Power Terminal and Housing	
	Protection Circuit	Reverse Polarity Protection/Output Short Circuit Protection/Pulse Overvoltage Protection	
	Operating Temperature	-25~70°C(No Freezing)	
	Storage Temperature	-30~80°C(No Freezing)	
Environmental conditions	Operating Humidity	35~85%RH(No Condensation)	
	Storage Humidity	35~95%RH(No Condensation)	
	Ambient Light	Incandescent Lamp ≤ 3000 Lux; LED Lamp ≤ 1000 Lux; Sunlight ≤ 10000 Lux	
	Vibration Resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X/Y/Z axes	
	Protection Rating	IP67	
	Maximum Tightening Torque	1Nm	
	Connection Method	2m/4-core Cable	
Mechanical data	Dimensions	M18X68mm	
	Material	Housing: PBT, Lens: PC	
	Weight	0.091/0.050kg	0.089/0.050kg
	Accessories	Nut M18x1	
	Model	NPN	PXM18-D10N
		PNP	PXM18-D10P
Model			PXM18-D40N
			PXM18-D40P

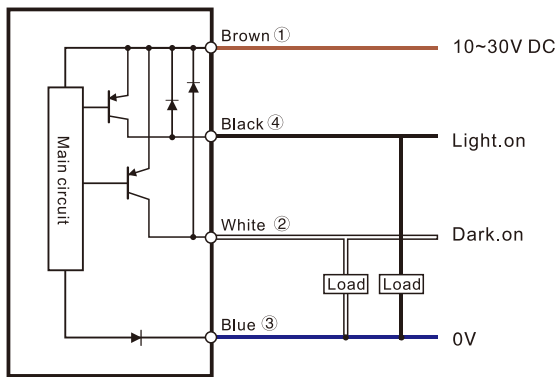


Circuit diagram

NPN Output



PNP Output



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

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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