

PM

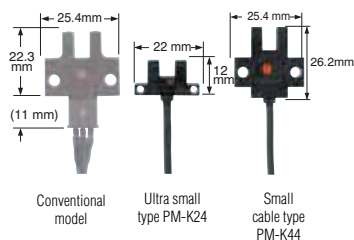
Enables equipment miniaturization and quick construction

Features

■ Compact size

Ultra small type

The **PM-□** sensors achieve an extremely compact size and can contribute to the miniaturization of your equipment.



■ Quick fitting hook-up connector

Easy to maintain hook-up connector type models are available. A connector attached cable is also available.

■ Equipped with two independent outputs

All models are equipped with two independent outputs – Light-ON and Dark-ON. Hence, one model suffices even if the output is to be used differently.

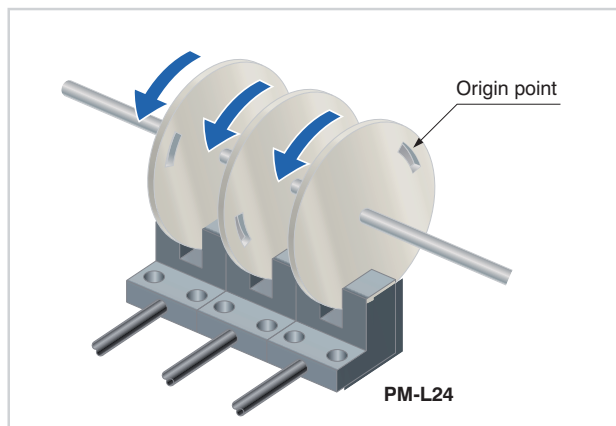
■ Flexible cable type

A flexible cable is used, which allows repeated bending. It is suitable for use in the moving part of a robot arm.

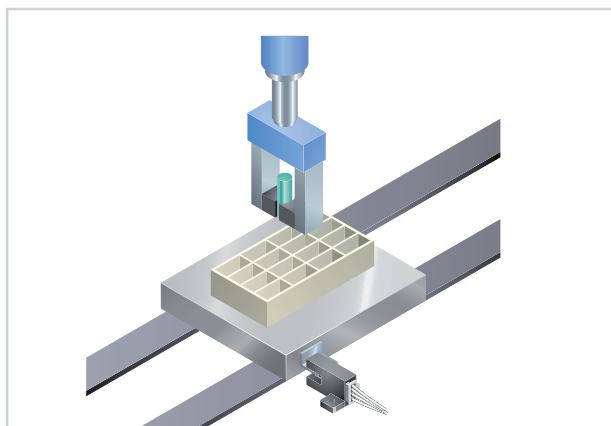
Typical applications

Sensing rotating bodies

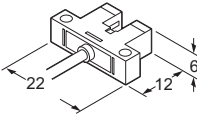
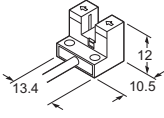
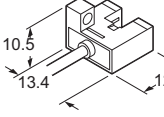
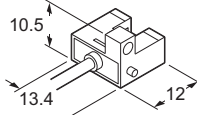
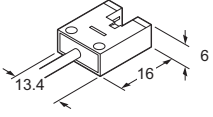
By incorporating a slit in the rotating body, the origin point can be sensed.

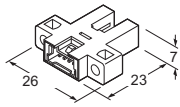
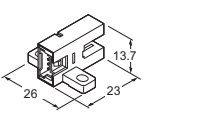
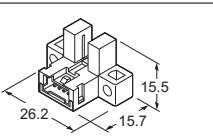
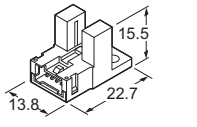
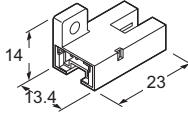
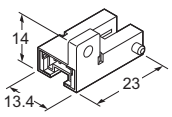


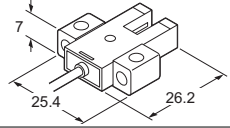
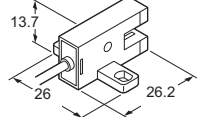
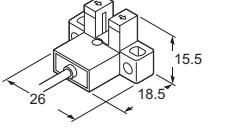
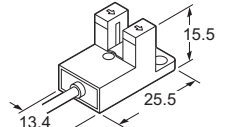
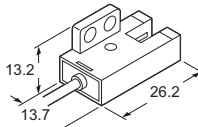
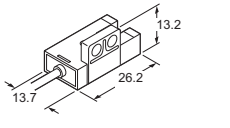
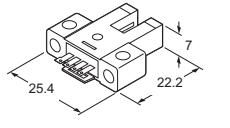
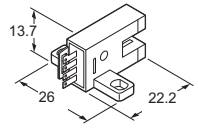
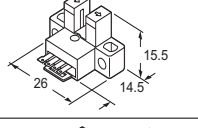
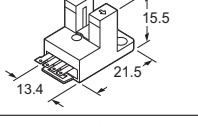
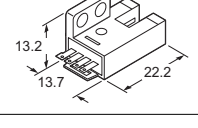
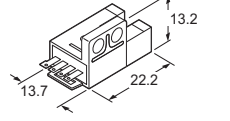
Determine the pallet position



Order guide

Type	Appearance (mm)	Model no.
Ultrasmall		PM-K24
		PM-K24P
		PM-L24
		PM-L24P
		PM-F24
		PM-F24P
		PM-R24
		PM-R24P
		PM-U24
		PM-U24P

Type	Appearance (mm)	Model no.
Small and built-in connector type		PM-K64
		PM-K64P
		PM-T64
		PM-T64P
		PM-L64
		PM-L64P
		PM-Y64
		PM-Y64P
		PM-F64
		PM-F64P
		PM-R64
		PM-R64P

Type	Appearance (mm)	Model no.
Small		PM-K44
		PM-K44P
		PM-T44
		PM-T44P
		PM-L44
		PM-L44P
		PM-Y44
		PM-Y44P
		PM-F44
		PM-F44P
		PM-R44
		PM-R44P
Small		PM-K54
		PM-K54P
		PM-T54
		PM-T54P
		PM-L54
		PM-L54P
		PM-Y54
		PM-Y54P
		PM-F54
		PM-F54P
		PM-R54
		PM-R54P

Photoelectric Sensors

Fiber-optic Sensors
Standard Fibers
Fiber Sensors Communication Units
Mark Sensors
Laser Sensors
Safety Sensors
Pressure & Flow Sensors
Inductive Proximity Sensors
Measurement Sensors
Ionizers / Electrostatic Sensors
Accessories
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Miniature Sensors

PM

Technical specifications

Fiber-optic Sensors

Standard Fibers

Fiber Sensors Communication Units

Mark Sensors

Laser Sensors

Safety Sensors

Pressure & Flow Sensors

Inductive Proximity Sensors

Measurement Sensors

Ionizers/ Electrostatic Sensors

Accessories

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Miniature Sensors

PM

Type		Ultra small type	Small type		
		With cable	With cable	With connector	Built-in connector
Model no.	NPN	PM-□24 (Note 1)	PM-□44	PM-□54	PM-□64
	PNP	PM-□24P	PM-□44P	PM-□54P	PM-□64P
Sensing range		5mm (fixed)			
Minimum sensing object		0.8 x 1.8mm opaque object			
Repeatability		0.03mm or less		0.01mm or less	
Supply voltage		5 to 24VDC ± 10%			
Output		PNP / NPN open-collector transistor, max. 50mA			
Output operation		Incorporated with 2 outputs: Light-ON / Dark-ON			
Response time		Under light incident condition: 20μs or less Under light incident condition: 100μs or less (Response frequency: min. 1kHz)			
Emitting element		Infrared LED			
Connection method		Cable 1m		Connector (Note 2)	Built-in connector (Note 2)

Notes:

- 1) K = K type
L = L type
F = F type
R = R type
U = U type
T = T type
Y = Y type
- 2) Cable not included in delivery, please order separately (accessories, page 125)