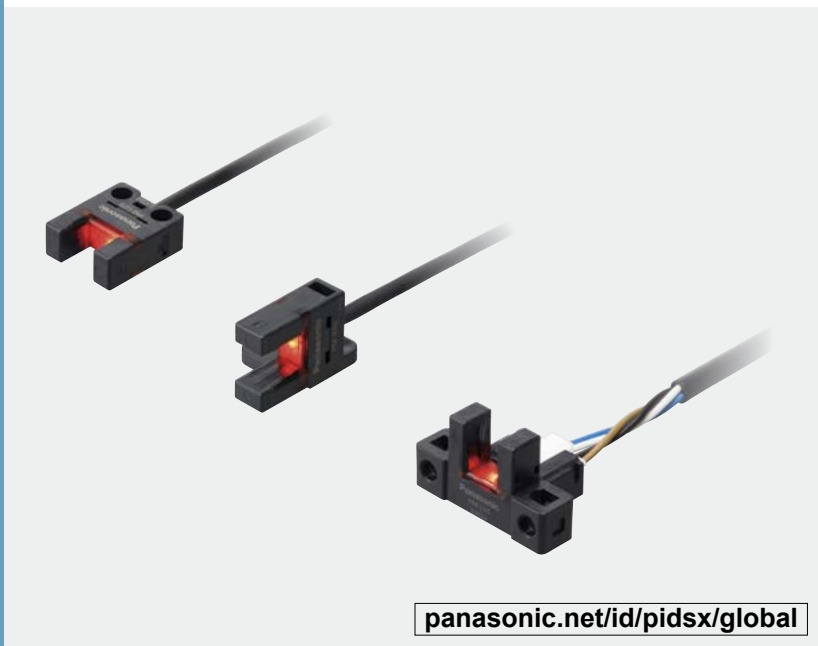


Related Information

■ General terms and conditions F-3
 ■ Glossary of terms / General precautions P.1549~ / P.1552~

■ Selection guide P.393~
 ■ Korea's S-mark P.1602



panasonic.net/id/pidsx/global



Certified
(Some models only)



PNP output
type available

One step ahead in performance and mounting ease

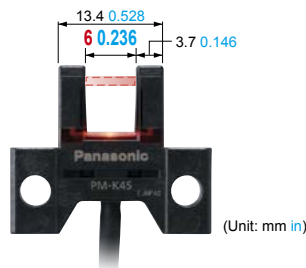
Three protection circuits standard on all models PM-25/45/65 SERIES

All models are standardly equipped with the following protection circuits in their compact bodies. These protection circuits minimize the possibility of sensor malfunctions caused by erroneous wiring.

- ① Reverse supply polarity protection circuit
- ② Reverse output polarity protection circuit
- ③ Output short-circuit protection circuit

Ample beam emitting / receiving distance of 6 mm 0.236 in PM-25/45/65 SERIES

The beam emitting and receiving sections are 0.5 mm 0.02 in thinner than those on our conventional models while their external dimensions are the same. As a result, the distance between the beam emitting point and receiving point increased by 1 mm 0.039 in. The wider distance means less possibility of collision between the sensing section and sensing object.



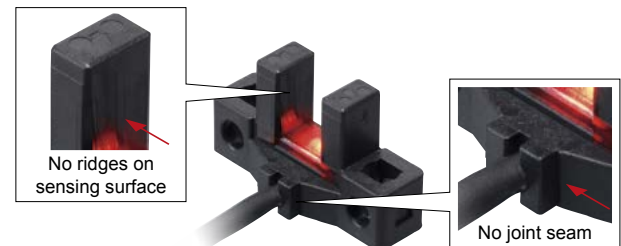
(Unit: mm in)

Industry's first*! IP64 rating

*As of April 2017, in-company survey.

PM-25/45 SERIES

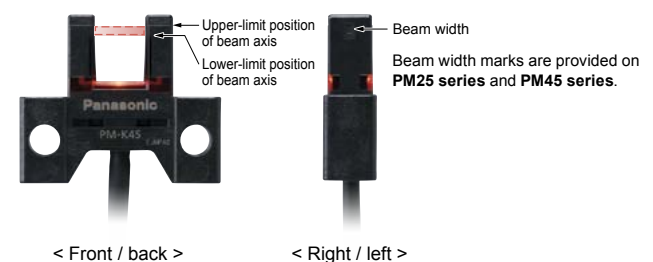
Our original integrated molding method has eliminated grooves and gaps on the sensing surface and main body, thus reducing the possibility of malfunctions caused by splashing water or dust.



Beam marks for easy adjustment

PM-25/45/65 SERIES

The upper-limit and lower-limit positions of beam can be visually confirmed from the front, back, right and left sides of the sensor unit. This allows easy adjustment of the position of sensing object.



< Front / back >

< Right / left >

FIBER
SENSORS

LASER
SENSORS

PHOTOELECTRIC
SENSORS

MICRO
PHOTOELECTRIC
SENSORS

AREA
SENSORS

SAFETY LIGHT
CURTAINS /
SAFETY COMPONENTS

PRESSURE /
FLOW
SENSORS

INDUCTIVE
PROXIMITY
SENSORS

PARTICULAR
USE SENSORS

SENSOR
OPTIONS

SIMPLE
WIRE-SAVING
UNITS

WIRE-SAVING
SYSTEMS

MEASUREMENT
SENSORS

STATIC
CONTROL
DEVICES

LASER
MARKERS

PLC

HUMAN MACHINE
INTERFACES

ENERGY
MANAGEMENT
SOLUTIONS

FA COMPONENTS

MACHINE VISION
SYSTEMS

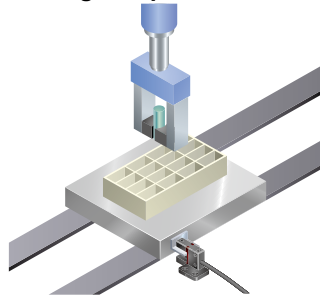
UV CURING
SYSTEMS

Selection
Guide

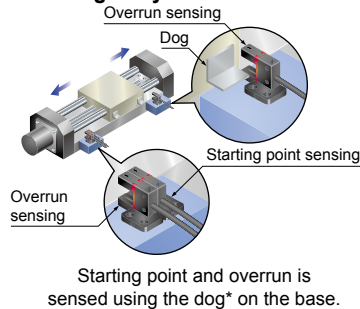
U-shaped

Convergent
Reflective

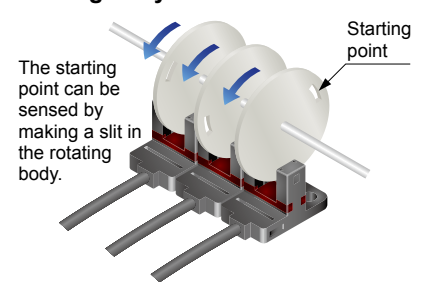
PM-25/PM-45/
PM-65

APPLICATIONS**Positioning of a pallet**

Pallet is stopped by sensing the dog*.

Sensing the starting point and overrun of a moving body

Starting point and overrun is sensed using the dog* on the base.

Sensing the starting point on a rotating body

The starting point can be sensed by making a slit in the rotating body.

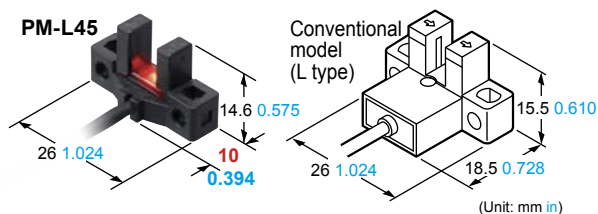
*"Dog" refers to the sensing object for activating the sensor's detecting operation.

Large and easy to see**Multi-angle operation indicator** **PM-25/45/65 SERIES**

The large operation indicator (orange) lights up when the beam enters. The indicator is easy to see from above and from the sides.

Compact size**PM-45 SERIES**

All new models require significantly less mounting space than our conventional models when mounted with the same pitch. What's more, the new models can directly replace our conventional models currently in use.

**All models easy to mount with M3 screws****PM-25/45/65 SERIES**

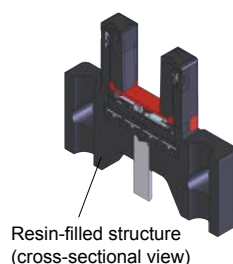
The sensor unit can be installed with one or two M3 screws.

* M3 screws and washers are not included.

- Models requiring one M3 screw for installation
PM-F25, PM-R25, PM-F65, PM-R65
- Models requiring two M3 screws for installation
Models other than above

Resistant to vibrations and impacts**PM-25/45/65 SERIES**

The sections where stress concentrates, such as the connecting section of the cable and internal circuit, are covered with a resin. This helps prevent malfunctions caused by vibrations and impacts.

**VARIATION**

Sensors come in various shapes to suit a wide range of mounting conditions

Ultra-small / Cable type**PM-25 SERIES**

Easy mounting with M2/M3 screws!

NPN output	1 m 3.281 ft cable	3 m 9.843 ft cable	1 m 3.281 ft bending-resistant cable
PNP output	1 m 3.281 ft cable	3 m 9.843 ft cable	1 m 3.281 ft bending-resistant cable

Compact / Cable type**PM-45 SERIES**

Compact size!

NPN output	1 m 3.281 ft cable	3 m 9.843 ft cable	1 m 3.281 ft bending-resistant cable
PNP output	1 m 3.281 ft cable	3 m 9.843 ft cable	1 m 3.281 ft bending-resistant cable

Compact / Connector built-in type **PM-65 SERIES**

Easy connection with a single touch using commercially-available connectors

NPN output	Connector attached cable 1 m 3.281 ft cable 3 m 9.843 ft cable	Connector attached bending-resistant cable 1 m 3.281 ft cable 3 m 9.843 ft cable
PNP output	Connector attached cable 1 m 3.281 ft cable 3 m 9.843 ft cable	Connector attached bending-resistant cable 1 m 3.281 ft cable 3 m 9.843 ft cable

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MICRO PHOTO-ELECTRIC SENSORS

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U-shaped

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PM-25/PM-45/PM-65