

PM2 SERIES

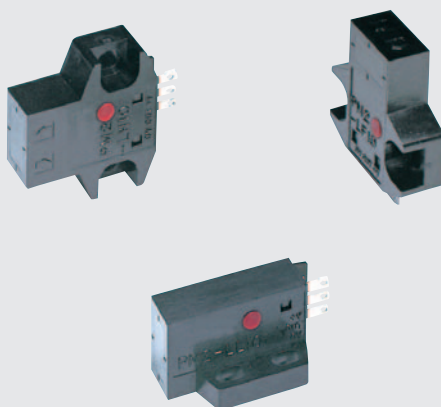
Related Information

■ General terms and conditions..... F-13

■ Sensor selection guide P.427~

■ Glossary of terms..... P.1455~

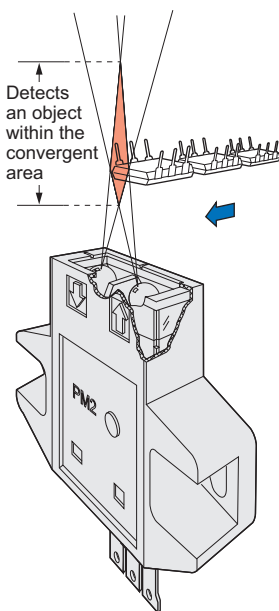
■ General precautions P.1458~


panasonic.net/id/pidsx/global

Convergent reflection sensing ensures stable detection

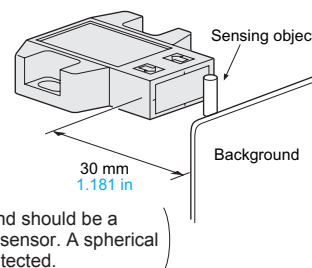
Stable detection by convergent reflective mode

Stable detection characteristics are obtained since it is convergent reflective type and senses a limited area.



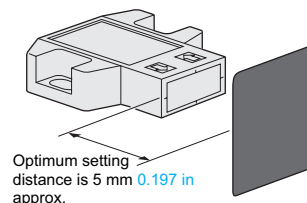
Hardly affected by background

Even a specular background does not affect the sensing performance if the sensor is located 30 mm 1.181 in away from it.



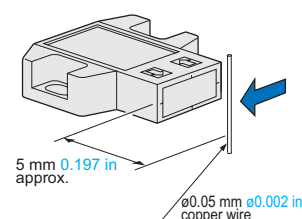
Dark object detectable

Since the sensor is very sensitive, it can detect even a dark object of low reflectivity.



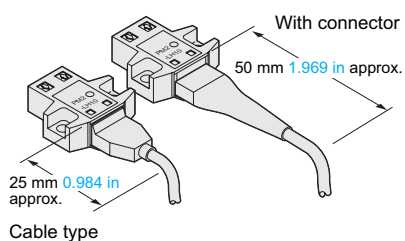
Minute object detectable

A $\phi 0.05$ mm $\phi 0.002$ in copper wire can be detected at a distance of 5 mm 0.197 in under the optimum condition.



Cable type is also available

Cumbersome soldering is not required. It saves space and improves reliability.



Selection Guide

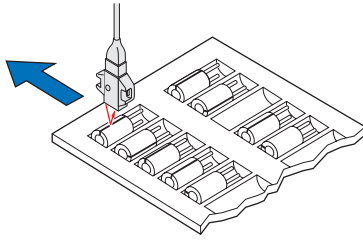
U-shaped

Convergent Reflective

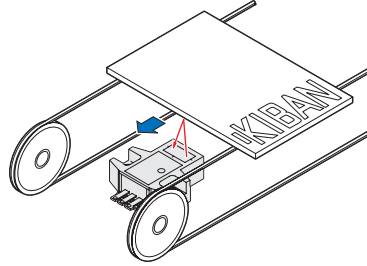
PM2

APPLICATIONS

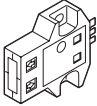
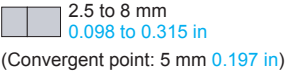
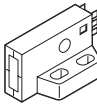
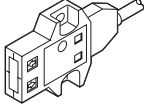
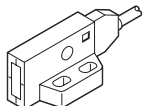
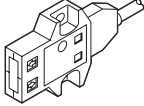
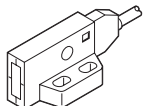
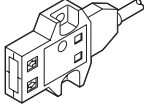
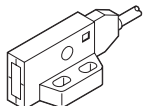
Sensing capacitors in a tray



Positioning and passage confirmation of a printed circuit board



ORDER GUIDE

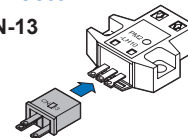
Type	Appearance	Sensing range	Model No.	Output	Output operation
Connector type	Top sensing 	 2.5 to 8 mm 0.098 to 0.315 in (Convergent point: 5 mm 0.197 in)	PM2-LH10	NPN open-collector transistor	Light-ON
	Front sensing 		PM2-LH10B		Dark-ON
	L type (Top sensing) 		PM2-LF10		Light-ON
Cable type	Top sensing 		PM2-LH10B		Dark-ON
	Front sensing 		PM2-LL10		Light-ON
	L type (Top sensing) 		PM2-LL10B		Dark-ON
	Top sensing 		PM2-LH10-C1		Light-ON
	Front sensing 		PM2-LH10B-C1		Dark-ON
	L type (Top sensing) 		PM2-LF10-C1		Light-ON
	Top sensing 		PM2-LF10B-C1		Dark-ON
	Front sensing 		PM2-LL10-C1		Light-ON
	L type (Top sensing) 		PM2-LL10B-C1		Dark-ON

OPTIONS

Designation	Model No.	Description
Connector	CN-13	Dedicated connector
Connector attached cable	CN-13-C1	0.2 mm ² 3-core cabtyre cable, 1 m 3.281 ft long
	CN-13-C3	0.2 mm ² 3-core cabtyre cable, 3 m 9.843 ft long

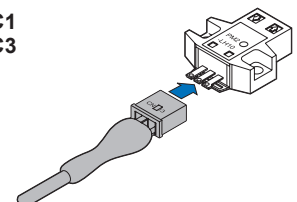
Connector

- CN-13



Connector attached cable

- CN-13-C1
- CN-13-C3



FIBER
SENSORS

LASER
SENSORS

PHOTO-
ELECTRIC
SENSORS

MICRO
PHOTO-
ELECTRIC
SENSORS

AREA
SENSORS

LIGHT
CURTAINS /
SAFETY
COMPONENTS

PRESSURE /
FLOW
SENSORS

INDUCTIVE
PROXIMITY
SENSORS

PARTICULAR
USE
SENSORS

SENSOR
OPTIONS

SIMPLE
WIRE-SAVING
UNITS

WIRE-SAVING
SYSTEMS

MEASURE-
MENT
SENSORS

STATIC
ELECTRICITY
PREVENTION
DEVICES

LASER
MARKERS

PLC

HUMAN
MACHINE
INTERFACES

ENERGY
CONSUMPTION
VISUALIZATION
COMPONENTS

FA
COMPONENTS

MACHINE
VISION
SYSTEMS

UV
CURING
SYSTEMS

Selection
Guide

U-shaped

Convergent
Reflective

PM2