

# MQ-W SERIES

## Triple Beam Trigonometric Area Reflective Photoelectric Sensors

Very accurate detection by triple beam triangulation sensing method in a compact package.



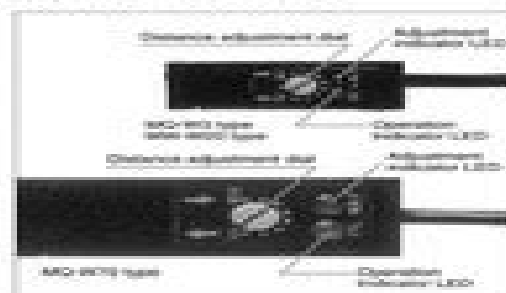
### FEATURES

**Accurate detection regardless of color, material, or shape of objects.**  
Area reflective type sensor can detect white or black object at the same distance. In case of diffuse reflective type, it is difficult to detect objects of various color with the same sensitivity setting. MQ-W area reflective type sensor is useful for such a case.

**No-miss operation regardless of back-grounds.**  
Area reflective type sensor does not detect objects beyond the set range.

**Resistant to lens surface soiling.**  
Area reflective type sensor detects the distance by the angle, not the intensity of received light. Even if the lens surface is soiled by dust or any powdery material, there is a little variation of sensing range.

**Environmental resistance**  
Immersion protected construction (equivalent to IEC IP67)  
**High speed detection:** Max. 2 ms  
**Light-On/Dark-On output** is wire selectable.  
**Operating voltage** of 12 to 24 V DC  
**Adjuster and Indicators**



### SENSING RANGES

	0.03 m (1.18 in.)	0.2 m (7.87 in.)	Sensing range (m (in.))	0.7 m (27.95 in.)
MQ-W3 types	■			
MQ-W50 types		■		
MQ-W75 types			■	

### PRODUCT TYPE

Detection method	Range	Rated operating voltage	Control output	Light source	Part number	** CE types
Triple beam area reflective type	0.03 m (1.18 in.)	12 to 24 V DC	NPN	Infrared LED	MQ-W3A-DC12-24V	MQ-W3A-DC12-24VEM
				Red LED	MQ-W3AR-DC12-24V	MQ-W3AR-DC12-24VEM
			PNP	Infrared LED	MQ-W3C-DC12-24V	MQ-W3C-DC12-24VEM
				Red LED	MQ-W3CR-DC12-24V	MQ-W3CR-DC12-24VEM
	0.2 m (7.87 in.)		NPN	Infrared LED	MQ-W50A-DC12-24V	MQ-W50A-DC12-24VEM
				Red LED	MQ-W50AR-DC12-24V	MQ-W50AR-DC12-24VEM
			PNP	Infrared LED	MQ-W50C-DC12-24V	MQ-W50C-DC12-24VEM
				Red LED	MQ-W50CR-DC12-24V	MQ-W50CR-DC12-24VEM
	0.7 m (27.95 in.)		NPN	Infrared LED	MQ-W75A-DC12-24V	MQ-W75A-DC12-24VEM
			PNP	Infrared LED	MQ-W75C-DC12-24V	MQ-W75C-DC12-24VEM

\*\* These suffix EM types conform to CE. These types have the grounding connection inside of housing.

# Panasonic Smoke Alarm User Manual

**Raffaela Di Napoli**



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