Panasonic

EX-14A-PN | Ultra-slim Photoelectric Sensor EX-10



actual product.

Product Number	EX-14A-PN
Part Number	EX-14A-PN
Product	Ultra-slim Photoelectric Sensor
Details	Convergent reflective (Diffused beam type) [Front sensing]
Product name	Ultra-slim Photoelectric Sensor EX-10
Features	Amplifier built-in extraordinarily small and slim size

Spec Detail

As of November 27, 2020

Specifications and design of the products are subject to change without notice for the product improvement.

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Item	Specifications
Product Number	EX-14A-PN
Part Number	EX-14A-PN
CE marking directive compliance	EMC Directive, RoHS Directive
Sensing range	2 to 25 mm 0.079 to 0.984 in (Conv. point: 10 mm 0.394 in) (Note) The sensing range and the hysteresis are specified for white non-glossy paper (50×50 mm 1.969×1.969 in) as the object.
Min. sensing object	ø0.1 mm ø0.004 in copper wire (Completely beam interrupted object) (Setting distance: 10 mm 0.394 in)
Hysteresis	15 % or less of operation distance (Note) The sensing range and the hysteresis are specified for white non-glossy paper (50 \times 50 mm 1.969 \times 1.969 in) as the object.
Repeatability(perpendicular to sensing axis)	0.1 mm 0.004 in or less
Supply voltage	12 to 24 V DC plus or minus 10 % Ripple P-P 10 % or less
Current consumption	13 mA or less
Output	PNP open-collector transistor - Maximum source current: 50 mA - Applied voltage: 30 V DC or less (between output and +V) - Residual voltage: 2 V or less (at 50 mA source current), 1 V or less (at 16 mA source current)
Output:Utilization category	DC-12 or DC-13
Output:Short-circuit protection	Incorporated
Response time	0.5 ms or less
Operation indicator	Orange LED (lights up when the output is ON)
Incident beam indicator	-
Stability indicator	Green LED (lights up under stable light received condition or stable dark condition)
Pollution degree	3 (Industrial environment)
Protection	IP67 (IEC)
Ambient temperature	-25 to +55 $^{\circ}\text{C}$ -13 to +131 $^{\circ}\text{F}$ (No dew condensation or icing allowed), Storage: -30 to +70 $^{\circ}\text{C}$ -22 to +158 $^{\circ}\text{F}$
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance	Incandescent light: 3,000 lx or less at the light-receiving face

1,000 V AC for one min. between all supply terminals connected together Voltage withstandability and enclosure 20 MOhm , or more, with 250 V DC megger between all supply terminals Insulation resistance connected together and enclosure 10 to 500 Hz frequency, 3 mm 0.118 in double amplitude (20 G max.) in X, Vibration resistance Y and Z directions for two hours each 500 m/s 2 acceleration (50 G approx.) in X, Y and Z directions three times Shock resistance Emitting element Red LED (Peak emission wavelength: 680 nm 0.027 mil, modulated) Enclosure: Polyethylene terephthalate Lens: Polyalylate Material Cable 0.1 mm^2 3-core (emitter: 2-core) cabtyre cable, 2 m 6.562 ft long Extension up to total 50 m 164.042 ft is possible with 0.3 mm², or more, Cable extension Net weight: 20 g approx Gross weight: 40 g approx Weight Accessory Mounting screws: 1 set

Accessories

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2		No image		No image	
Product Number	CHX-SC2	Product Number	MS-EX10-1	Product Number	MS-EX10-11
Part Number	CHX-SC2	Part Number	MS-EX10-1	Part Number	MS-EX10-11
Product	Sensor Checker	Product	Mounting bracket	Product name	Mounting bracket
Product name	Sensor Checker CHX-SC2	name		name	-
No image		No image		No image	
Product Number	MS-EX10-13	Product Number	MS-EX10-3	Product Number	MS-M2
Part Number	MS-EX10-13	Part Number	MS-EX10-3	Part Number	MS-M2
Product name	Mounting bracket	Product name	Mounting bracket	Product name	Mounting screw
No image		No image		No image	
Product Number	OS-EX10-12	Product Number	OS-EX10-15	Product Number	OS-EX10E-12
Part Number	OS-EX10-12	Part Number	OS-EX10-15	Part Number	OS-EX10E-12
				Product	

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