Panasonic INDUSTRY

NEW

M2 Screw Mounting Type Compact Convergent Reflective Sensor

BE-C14 SERIES

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Hardly affected by background



Suitable for detection of blood collection tube, tube holder and rack in the clinical diagnostic system!

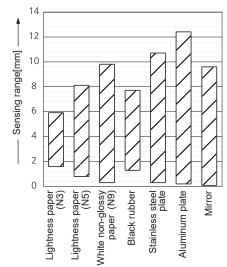
SPECIFICATIONS

Туре		NPN output type	PNP output type
Model No.		BE-C14A	BE-C14A-P
Regulatory compliance		EMC Directive, RoHS Directive	
Sensing range		2.5 to 6 mm (white non-glossy paper 50 × 50 mm)	
Hysteresis		15 % or less of operation distance (white non-glossy paper 50 × 50 mm)	
Supply voltage		12 to 24 V DC ±10 % Ripple P-P 10 % or less	
Current consumption		13 mA or less	
Output Output operation		NPN open-collector transistor • Maximum sink current: 50 mA • Applied voltage: 30 V DC or less (between output and 0 V) • Residual voltage: 2 V or less (at 50 mA sink current) 1 V or less (at 16 mA sink current)	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)
		Light-ON	
	Short-circuit protection	Incorpo	orated
Response time		0.5 ms or less	
Protection		IP67 (IEC)	
Ambient temperature		-25 to +55 °C (No dew condensation or icing allowed), Storage: -30 to +70 °C	
Ambient humidity		35 to 85 % RH, Storage: 35 to 85 % RH	
Emitting element		Red LED (modulated)	
Material		Enclosure: Polyarylate (black),Lens: Polyarylate(transparent)	
Cable		0.1 mm ² 3-core cabtyre cable,2 m long	
Weight		Net weight: 20 g approx., Gross weight: 30 g approx.	
Accessories		M2 screw (length 8 mm), Nut, Spring washer, Plain washer: 2 each	

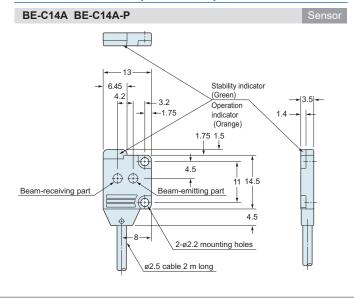
- * The mounting brackets MS-EX10-1 and MS-EX10-11 can be used.
- * Minimum order quantity is 10 units. Please order 10 units or more.

SENSING CHARACTERISTICS (TYPICAL)

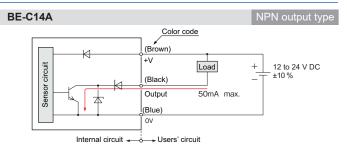
Correlation between material (50 × 50 mm) and sensing range

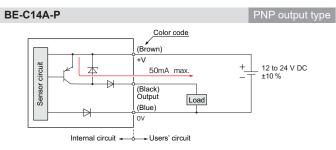


DIMENSIONS (Unit: mm)



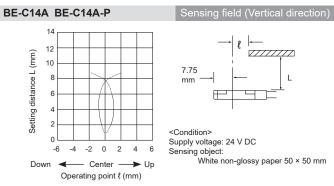
I/O CIRCUIT DIAGRAMS

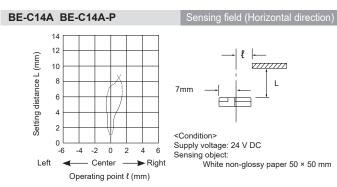




SENSING FIELDS (TYPICAL)

Make sure to confirm detection with an actual workpiece / equipment.





PRECAUTIONS FOR PROPER USE



- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- Do not use during the initial transient time (50 ms) after the power supply is switched on.
- Excess bending of the cable or stress applied to the cable may disconnect the internal lead wire.



eBook information for "Life Science - Our Solution for Liquid Dispensing Process"

https://industrial.panasonic.com/ac/e/fasys/special/biomedical/