

Photoelectric sensor - Color sensor OSM47



Description:

The combination of white LED and customized receiving optical elements ensures stable performance. OLED display function and key settings. Supports three detection modes, with a maximum of 15 colors detected simultaneously. Suitable for industries such as automotive parts, 3C, packaging, lithium batteries, photovoltaics, semiconductors, etc.

Features:

- OLED digital display + teaching function
- IO-Link
- Adjustable white spot size

Type:

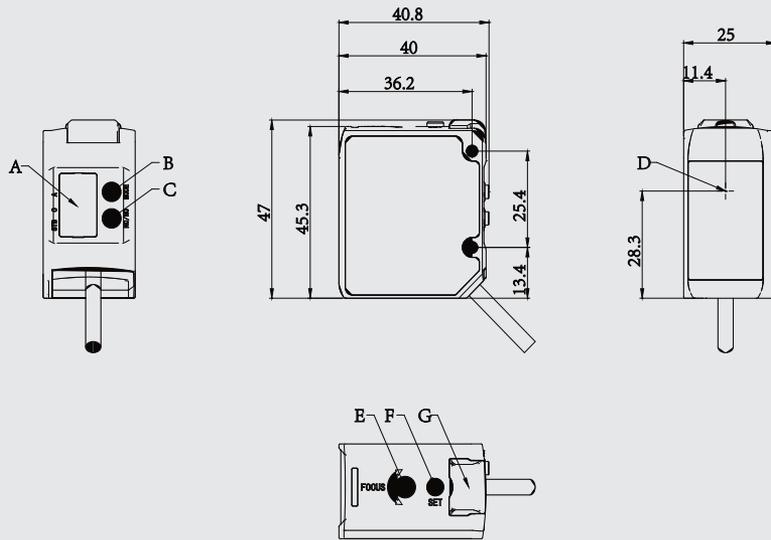
Type	Detecting Distance	Light source	Output	Connection
OSM47-CK500C2B6	30 ...500mm	White LED	NPN/PNP	2m cable
OSM47-CK500C2B6Q12.1	30 ...500mm	White LED	NPN/PNP	M12 connector
OSM47-CK500C2B6/IO	30 ...500mm	White LED	NPN/PNP + IO/Link	2m cable
OSM47-CK500C2B6Q12.1/IO	30 ...500mm	White LED	NPN/PNP + IO/Link	M12 connector

Technical Data :

Detecting distance	30 ... 500 mm
Light source	White LED
Ripple voltage	<1.56 W
Frequency difference	Frequencies can be set, up to 2
Output type	2 × NPN/PNP
Communication mode	IO-Link
External input	1 way can be used for external triggering
Spot size	∅3.5mm@100m; ∅9mm@250m; ∅18mm@500m
Load current	24VDC 65mA
Supply voltage	10...30 VDC ± 10%
Switch mode	N.O. / N.C.
Ambient light resistance	Incandescent lamp: less than 10000 lux; Sunlight: below 20000 lux
Protection circuit	Reverse polarity protection, short circuit protection, overload protection
Response time	200us / 1ms / 10ms / 500ms
Housing material	Zinc die-casting
Connector	2m, 5-pin, PVC; Q12 connector 5-pin
Ambient temperature	-40 °C ... +70 °C
Storage temperature	-20 °C ... +50 °C
Voltage withstanding	1000V / AC / 50 / 60Hz 60s
Insulation impedance	≥50MΩ (500VDC)
Shock resistance	Complex amplitude 1.5 mm 10... 50 Hz (2hr X, Y, Z respectively)
Impact resistance	500m/S2 (50G) 3 times X, Y, Z respectively
Protection class	IP67
Housing dimension	40.8*47*25 mm

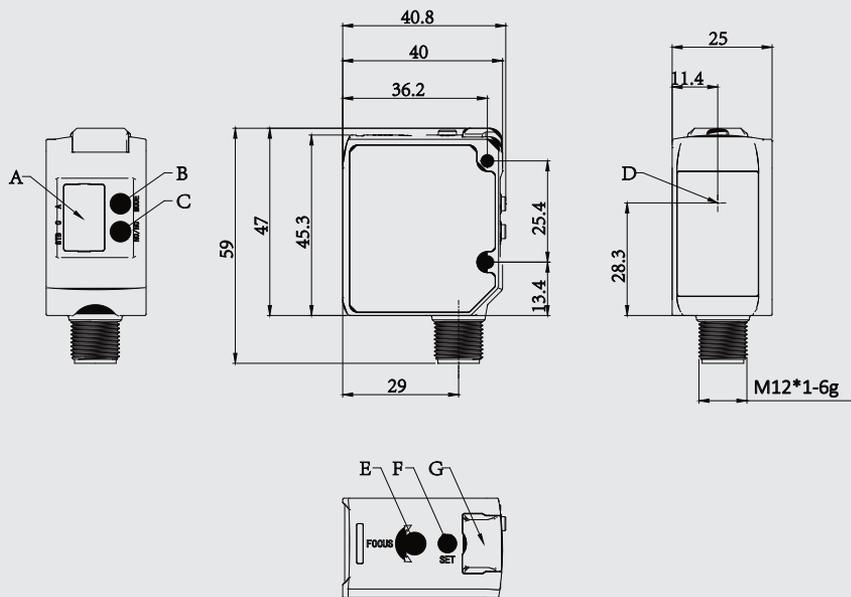
Dimensions:

2m cable



- A: OLED display
- B: function setting button
- C: function adjustment button
- D: emitting
- E: adjuste knob
- F: teaching button
- G: Indicator LED

M12 connector



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- B: function setting button
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