4-channel U-shaped Photoelectric Sensors

BUM Series

CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.
The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Highly reliable 4 channel detection
- High-speed response time under 1 ms
- Built-in reverse power protection circuit and output short overcurrent protection circuit
- IP65 protection rating (IEC standard)

Ordering Information

This is only for reference, the actual product does not support all combinations.
For selecting the specified model, follow the Autonics website.

BUM4	-	40	D	-	W	-	❶	/	❷

❶ Cable length
2M: 2 m
3M: 3 m
4M: 4 m

❷ Applied bracket
No mark: None (4 m of cable length model)
A: H01, H04
B: H03, H04

Product Components

Model	BUM4-40D-W-4M	BUM4-40D-W-□/A	BUM4-40D-W-□/B
Product components	Product, instruction manual		
Bracket	-	H01, H04	H03, H04
M5 bolt	-	× 2	× 2
M12 bolt / nut	-	× 4	× 4

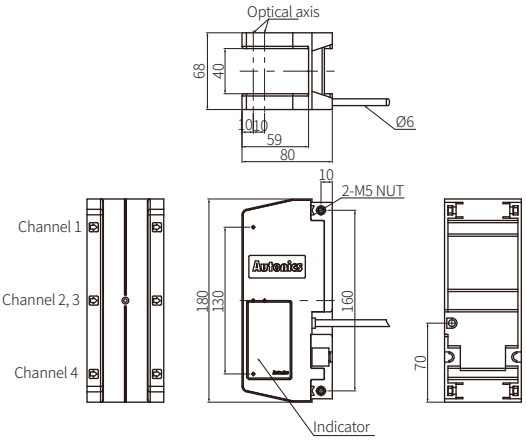
Specifications

Model	BUM4-40D-W-4M	BUM4-40D-W-□/A	BUM4-40D-W-□/B
Sensing type	Through-beam		
Sensing distance	40 mm		
Sensing target	Opaque materials		
Min. sensing target	≥ Ø 4 mm		
Response time	≤ 1 ms		
Light source	Infrared		
Peak emission wavelength	940 nm		
Operation mode	Dark ON mode		
Indicator	Output Indicator (red), power indicator (green)		
Approval	CE EAC		
Unit weight (packaged)	≈ 500 g (≈ 510 g)	≈ 500 g (≈ 1.5 kg)	≈ 500 g (≈ 1.5 kg)

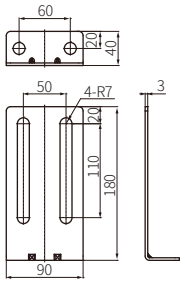
Power supply	18-35 VDC⎓ ±10 % (ripple P-P: ≤ 10%)
Current consumption	≤ 50 mA
Control output	NPN open collector output (individual 4 output)
Load voltage	≤ 35 VDC⎓
Load current	≤ 100 mA
Residual voltage	≤ 4 VDC⎓
Protection circuit	Reverse power protection circuit, output short overcurrent protection circuit
Insulation resistance	≥ 20 MΩ (500 VDC⎓ megger)
Noise immunity	±240 VDC⎓ the square wave noise (pulse width: 1 μs) by the noise simulator
Dielectric strength	1,000 VAC~ 50/60 Hz for 1 min
Vibration	1.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours
Shock	500 m/s² (≈ 50 G) in each X, Y, Z direction for 3 times
Ambient illuminance (receiver)	Sunlight: ≤ 11,000 lx, incandescent lamp: ≤ 3,000 lx
Ambient temperature	-25 to 65 °C, storage: -25 to 70 °C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)
Protection rating	IP65 (IEC standard)
Connection	Cable type
Cable spec.	Ø 6 mm, 8-wire, 2 m / 3 m / 4 m model
Wire spec.	AWG22 (1.2 mm, 60-core)
Material	Case, cover: ABS

Dimensions

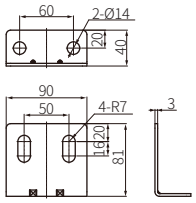
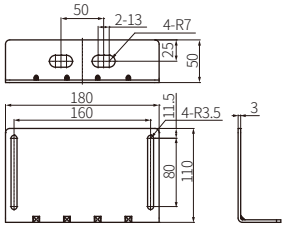
• Unit: mm, For the detailed drawings, follow the Autonics website.,



■ Bracket H01



■ Bracket H03



■ Bracket H04