Autonics

# 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	-	0	/	2	
Cable length				🖸 Apj	olied b	racket			
2M: 2 m				No ma	ark: Noi	ne (4 m c	of cable	length mod	del)
3M: 3 m				A: H01	, H04				
4M: 4 m				B: H03	, H04				

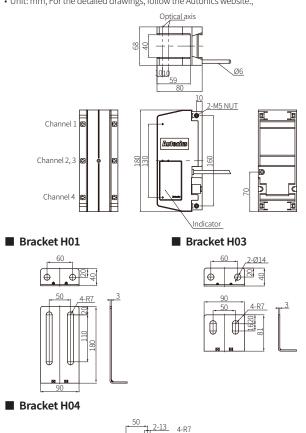
## **Product Components**

Model	BUM4-40D-W-4M	BUM4-40D-W-□/A	BUM4-40D-W-□/B
Product components	Product, instruction ma	anual	
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	≥Ø4mm					
Response time	$\leq 1  \text{ms}$					
Light source	Infrared					
Peak emission wavelength	940 nm					
Operation mode	Dark ON mode					
Indicator	Output Indicator (red), power indicator (green)					
Approval	CETRE					
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	$\leq$ 50 mA					
Control output	NPN open collector output (individual 4 output)					
Load voltage	$\leq$ 35 VDC=					
Load current	$\leq$ 100 mA					
Residual voltage	≤4VDC=					
Protection circuit	Reverse power protection circuit, output short overcurrent protection circuit					
Insulation resistance	$\geq$ 20 M $\Omega$ (500 VDC== megger)					
Noise immunity	$\pm 240\text{VDC}\text{=}$ the square wave noise (pulse width: 1 $\mu\text{s})$ 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/s <sup>2</sup> ( $\approx$ 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



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180 160 25

4-R3.5 -----3

8

22

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