

Rectangular Photoelectric Sensors (Cable Type)

BJ Series



Features

- Compact size: W 10.6 × H 32 × L 20 mm
- IP65 protection rating (IEC standard)
- Adjuster for selecting Light ON / Dark ON mode
- Built-in sensitivity adjustment adjuster (except BJG30-DDT)
- Reverse power protection circuit, output short overcurrent protection circuit
- Mutual interference prevention function (except through-beam and BGS reflective type)
- Excellent noise immunity and minimal influence from ambient light

Specifications

Model	BJ□-TDT-□			BJ3M-PDT-□	BJ□-BDT-□		BJN□-NDT-□	
Sensing type	Through-beam			Polarized retroreflective	BGS reflective		Narrow beam reflective	
Sensing distance	7 m	10 m	15 m	3 m ⁰¹⁾	10 to 30 mm ⁰²⁾	10 to 50 mm ⁰²⁾	30 to 70 mm ⁰³⁾	70 to 130 mm ⁰³⁾
Sensing target	Opaque materials			Opaque materials	Opaque materials, translucent materials		Opaque materials, translucent materials	
Min. sensing target	≥ Ø 8 mm	≥ Ø 12 mm		≥ Ø 75 mm	-		≥ Ø 0.2 mm (copper wire)	
Hysteresis	-			-	≤ 10% of sensing distance		≤ 25% of sensing distance	≤ 20% of sensing distance
Black/white difference	-			-	≤ 10% of sensing distance		-	
Response time	≤ 1 ms			≤ 1 ms	≤ 1.5 ms		≤ 1 ms	
Light source	Red	Red	Infrared	Red	Red		Red	
Peak emission wavelength	650 nm	660 nm	850 nm	660 nm	660 nm		650 nm	
Min. spot size	-			-	≈ Ø 5.0 mm	≈ Ø 4.5 mm	≈ Ø 2.0 mm	≈ Ø 2.5 mm
Sensitivity adjustment	YES (Adjuster)			YES (Adjuster)	YES (Adjuster) ⁰⁴⁾		YES (Adjuster)	
Mutual interference prevention	-			YES	-		YES	
Operation mode	Light ON mode - Dark ON mode selectable (Adjuster)							
Indicator	Operation indicator (red), stability indicator (green), power indicator (green) ⁰⁵⁾							
Approval	CE ENEC			CE ENEC	CE ENEC		CE ENEC	
Unit weight (packaged)	≈ 90 g (≈ 115 g)			≈ 60 g (≈ 85 g)	≈ 50 g		≈ 45 g	

01) Reflector (MS-2A)

02) Non-glossy white paper 50 × 50 mm

03) Non-glossy white paper 100 × 100 mm

04) -10% of max. sensing distance, Non-glossy white paper

05) Only for the emitter



View product detail

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