Photoelectric Switch

FBX SERIES CE

Width 25mm, repeatability±0.1mm

- •Unnecessary to adjust.
- High response time and high repeatability.
- Conformity to EMC directive.

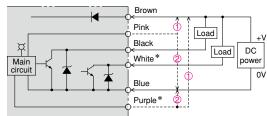


Туре	Through-beam type			
Model No.	FBX-25JC	FBX-25JA	FBX-25DC	FBX-25DA
Power source	12 to 24VDC (±10%, ripple 5% or less)			
Power consumption	20mA or less	25mA or less	35mA or less	40mA or less
Light source	Infrared LED (880nm)			
Detecting distance	25mm×1 beam 25		25mm×2 beam	
Detectable object	Opaque objects with ϕ 1mm or more			
Operating mode	Changeover by control wire (FBX-25JC/25JA: Pink, FBX-25DC/25DA: Pink, purple) Light-ON: Connected control wire to +V (brown), Dark-ON: Connected control wire to 0V (Blue)			
Control output	NPN transistor open-collector	PNP transistor open-collector	NPN transistor open-collector	PNP transistor open-collector
	Allowable load voltage: 33V or less, allowable load current: 100mA or less Residual (ON) voltage: 1.0V/100mA or less, 0.5V/10mA or less			
Protective circuit	Protection for power reverse connection, Protection for output counter-voltage			
Response time	1msec or less			
Repeatability	±0.1mm			
Indication lamps	Power lamp: Green LED (Lights up when power-ON), Light-entering lamp: Orange LED (Lights up when light-entering)			
Connection	Cable type (2m long, 0.2mm ² , 4-core vinyl cable with oil-proof and cold-proof) Cable type (2m long, 0.2mm ² , 6-core vinyl with oil-proof and cold-proof)			
Ambient illuminance	Sun light: 10,000lux or less, Incandescent lamp: 5,000lux or less			
Ambient temperature/humidity	-25 to +55°C (-30 to +70°C when stored), 45 to 85%RH (Not icing/not condensing)			
Protective structure	IP67 (IEC standard)			
Case material	Polycarbonate			
Weight	Approx. 60g		Approx. 65g	

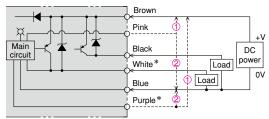
★Protective cover is available as an option. Ask us for details.

Output circuit

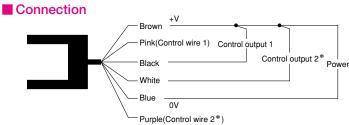
NPN output type



PNP output type



Operation mode changeover (Pink but pink/purple for FBX-25DC/25DA): Output transistor ON when light-entering (connected to +V side), output transistor ON when light-interrupting (connected to 0V side) *Only FBX-25DC/25DA is provided.



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External dimensions

