



PJ-50A
Base Unit



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

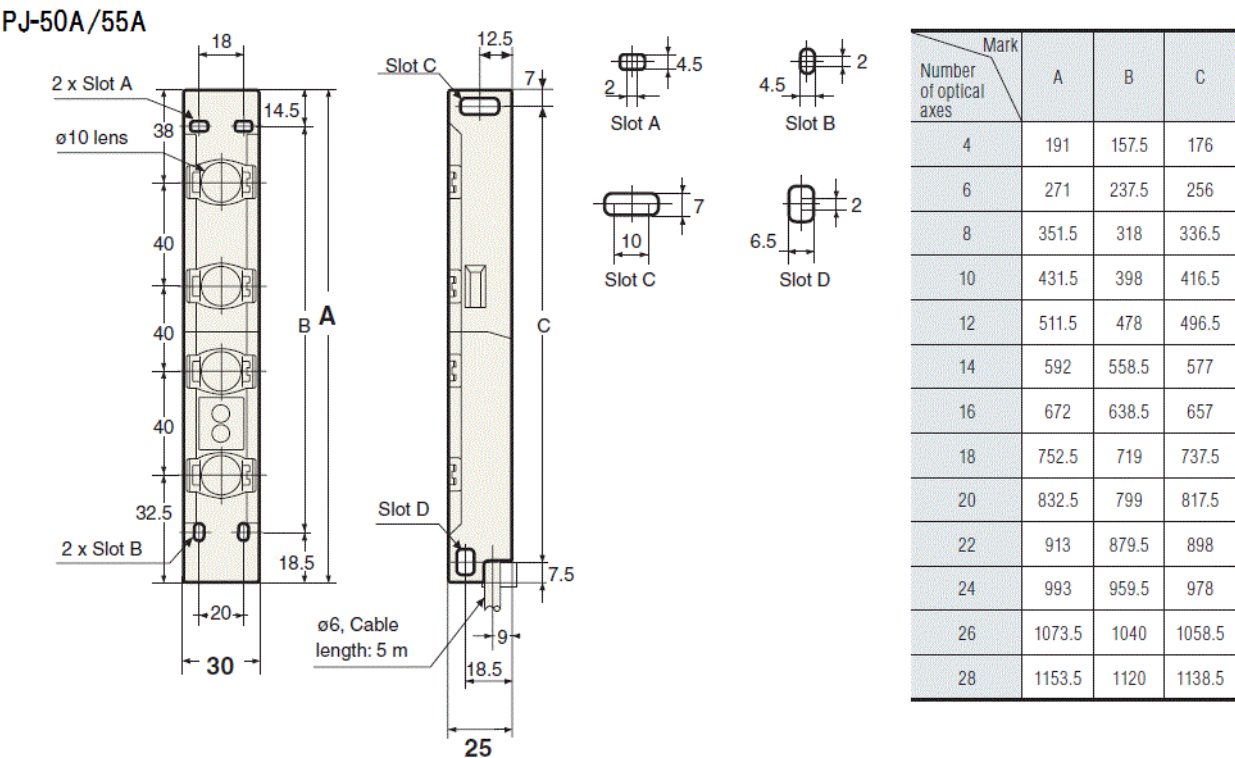
Specifications

Model		PJ-50A
No. of beam axes		4
Beam axis spacing		40 mm 1.57"
Maximum optical axis number		28 optical axes (PJ-50A x 1 + PJ-55A x 12)
Detection area		120 mm 4.72" (4 optical axes) to 1080 mm 42.52" (28 optical axes)
Detecting distance		5 m 16.40'
Detectable object		Opaque materials (50 mm dia. min.)
Light source		Infrared LED
Indicator lamp		Output (PJ-50AR)/Power (PJ-50AT) : Red LED, Stable operation (PJ-50AR) : Green LED
Response time		15 ms or less
Output	Control output	NPN open collector 100 mA max. (40 V max.), Residual voltage : 1 V max.
Control output	Operation mode	LIGHT-ON/DARK-ON (switch-selectable)
Noise resistance (power supply line)		350 V, pulse width : 1 μs (by way of a noise simulator)
Protection circuit		Reversed polarity, overcurrent protection, surge absorber
Rating	Power voltage	12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Current consumption	90 mA (PJ-50AT: 35 mA, PJ-50AR: 55 mA)* ¹
Environmental resistance	Enclosure rating	IP64
	Ambient light	Incandescent lamp: 3,500 lux max., Sunlight: 12,000 lux max.
	Ambient temperature	-20 to +50 °C -4 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	100 m/s ² , 3 times in each of the X, Y, and Z directions
Material		Housing : Glass-fi bre reinforced plastic, Lens cover : PFA
Weight		PJ-50AT: Approx. 390 g, PJ-50AR: Approx. 395 g* ²

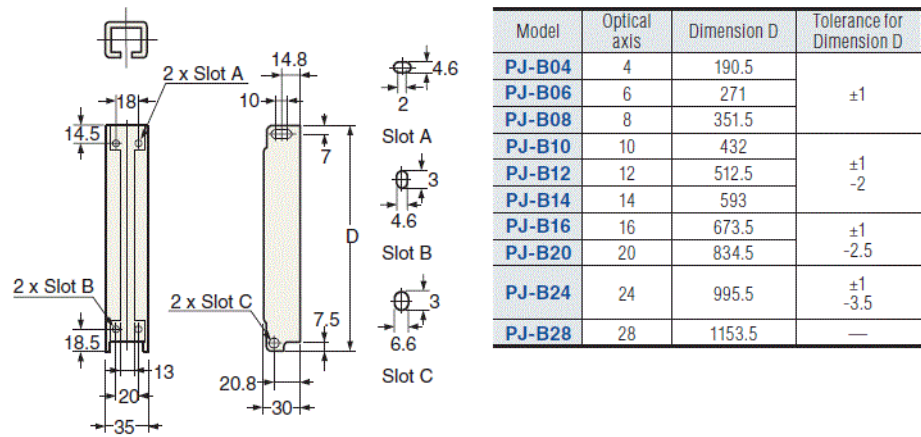
*¹ This is the value with a power supply voltage of 24 V. (80 mA for the PJ-50A, 20 mA for the PJ-55A, and 45 mA for the PJ-56 with a power supply voltage of 12 V.)
*² For models PJ-50AT and 50AR, the weight of the 5-m cable is included.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.



Protective cover for PJ-50A/55A



Unit: mm