

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

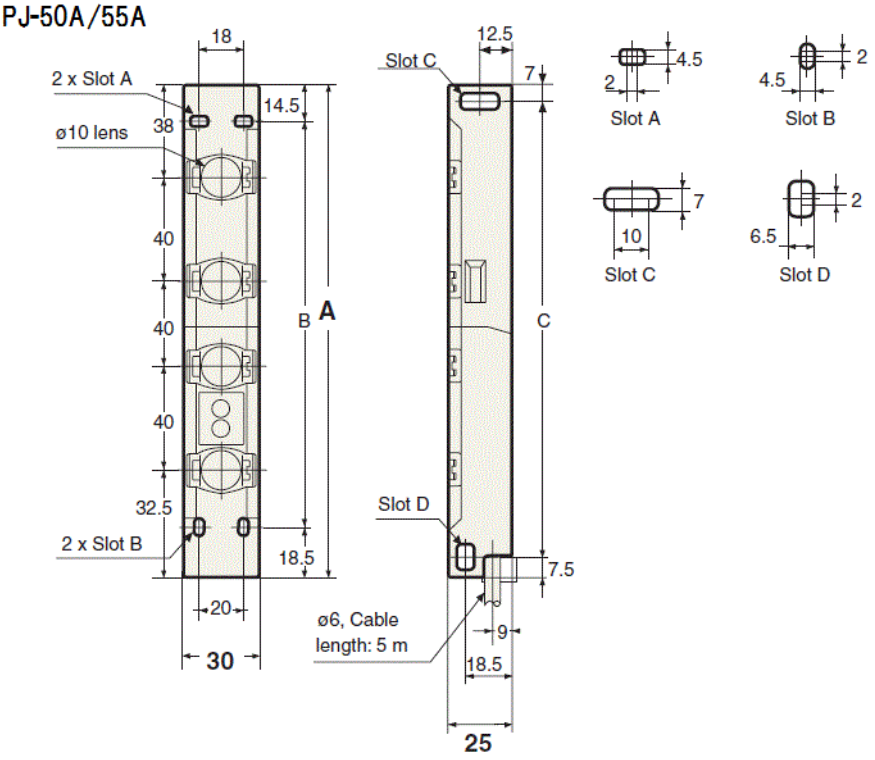
Model		PJ-50A
No. of beam axes		4
Beam axis spacing		40 mm 1.57"
Maximum optical axis number		28 optical axes (PJ-50A x 1 + PJ-55A x 12)
Detection area		120 mm 4.72" (4 optical axes) to 1080 mm 42.52" (28 optical axes)
Detecting distance		5 m 16.40'
Detectable object		Opaque materials (50 mm dia. min.)
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/s², 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

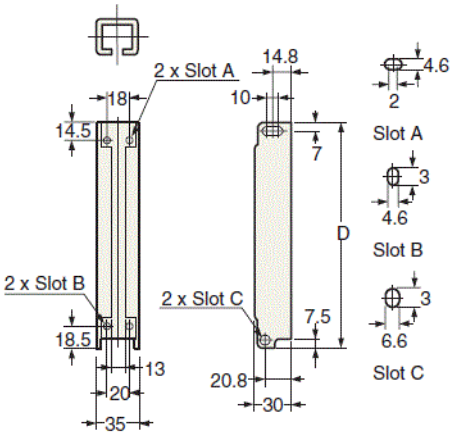
* Download CAD file or product manual for larger image/text and more detail.

PJ-50A/55A



Number of optical axes \ Mark	A	B	C
4	191	157.5	176
6	271	237.5	256
8	351.5	318	336.5
10	431.5	398	416.5
12	511.5	478	496.5
14	592	558.5	577
16	672	638.5	657
18	752.5	719	737.5
20	832.5	799	817.5
22	913	879.5	898
24	993	959.5	978
26	1073.5	1040	1058.5
28	1153.5	1120	1138.5

Protective cover for **PJ-50A/55A**



Model	Optical axis	Dimension D	Tolerance for Dimension D
PJ-B04	4	190.5	±1
PJ-B06	6	271	
PJ-B08	8	351.5	
PJ-B10	10	432	±1 -2
PJ-B12	12	512.5	
PJ-B14	14	593	
PJ-B16	16	673.5	±1 -2.5
PJ-B20	20	834.5	
PJ-B24	24	995.5	±1 -3.5
PJ-B28	28	1153.5	—

Unit: mm