

# PJ-55A

Expansion 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-55A |
| No. of beam axes | | 2 |
| 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 | 25 mA (PJ-55AT: 5 mA, PJ-55AR: 20 mA) (total of T, R)*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-55AT: Approx. 60 g, PJ-55AR: Approx. 65 g |

*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.)

# Dimensions

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

