

PQ-01

Main Unit, Short-distance Type

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

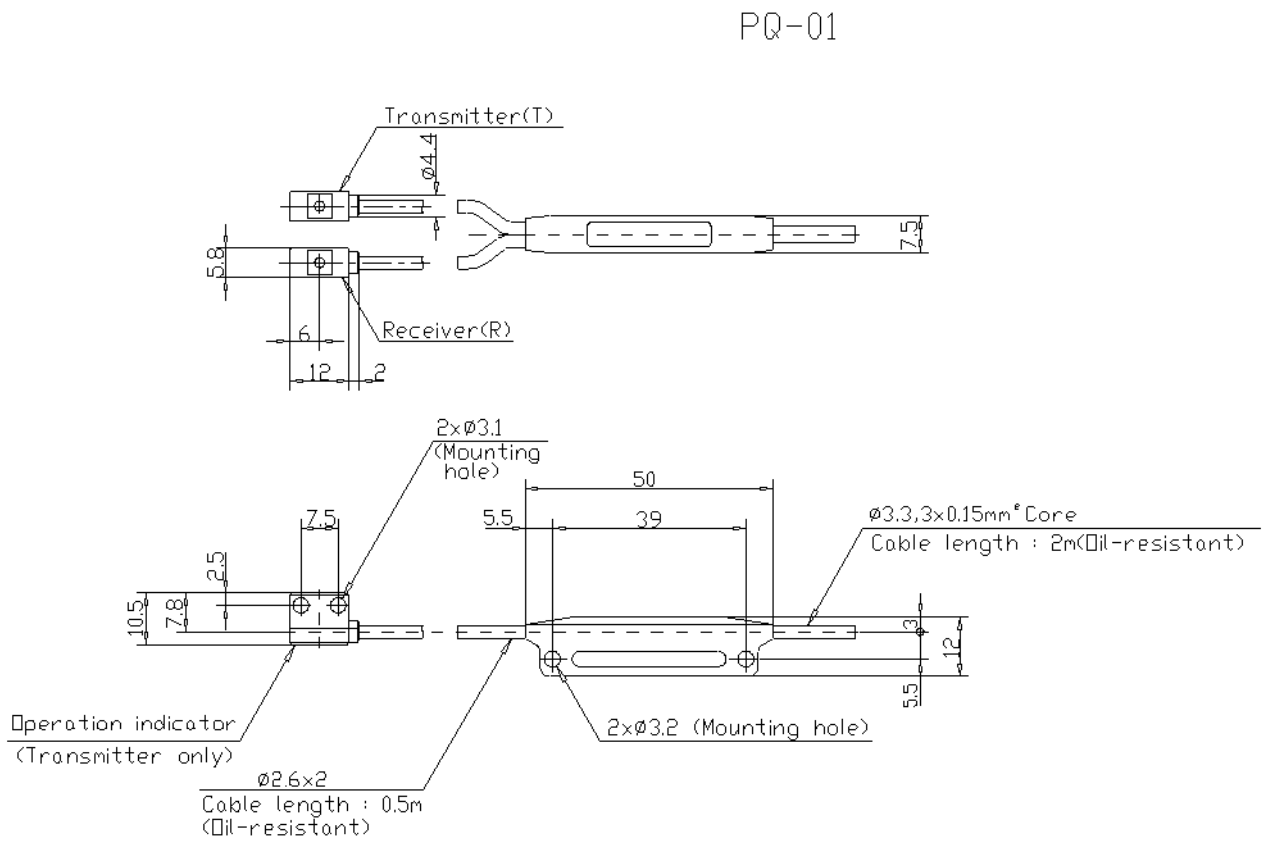
Specifications

Model		PQ-01
Type		Thrubeam Short-detecting distance
Detecting distance		100 mm 3.94"
Light source		Infrared LED
Detectable object		1 mm 0.04" dia. min. opaque materials
Minimum detectable object		0.5 mm 0.02" dia. copper wire
Response time		1 ms max.
Operation mode		DARK-ON *1
Indicator lamp		Output : Red LED
Control output		NPN: 100 mA max. (40 V max.), Residual voltage: 1 V max. *2
Protection circuit		Reversed polarity, overcurrent protection, surge absorber
Rating	Power voltage	12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Current consumption	30 mA or less
Environmental resistance	Enclosure rating	IP64
	Ambient light	Incandescent lamp: 3,000 lux max., Sunlight: 10,000 lux max.
	Ambient temperature	-20 to +55 °C -4 to 131 °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	500 m/s², 3 times in each of the X, Y, and Z directions
Material		Amplifier : Polysulfone, Sensor head : Polyarylate
Weight		Approx. 48 g (including 2m 6.6' cable)

*1 For the LIGHT-ON operation mode, contact KEYENCE.
*2 NPN output can easily be converted to PNP output by connecting the optional OP-5148 PNP output converter.

Dimensions

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



I/O Circuit Connection diagram

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I/O Circuit

