

ED-118U

Main Unit, Unshielded Type, M18, NPN

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

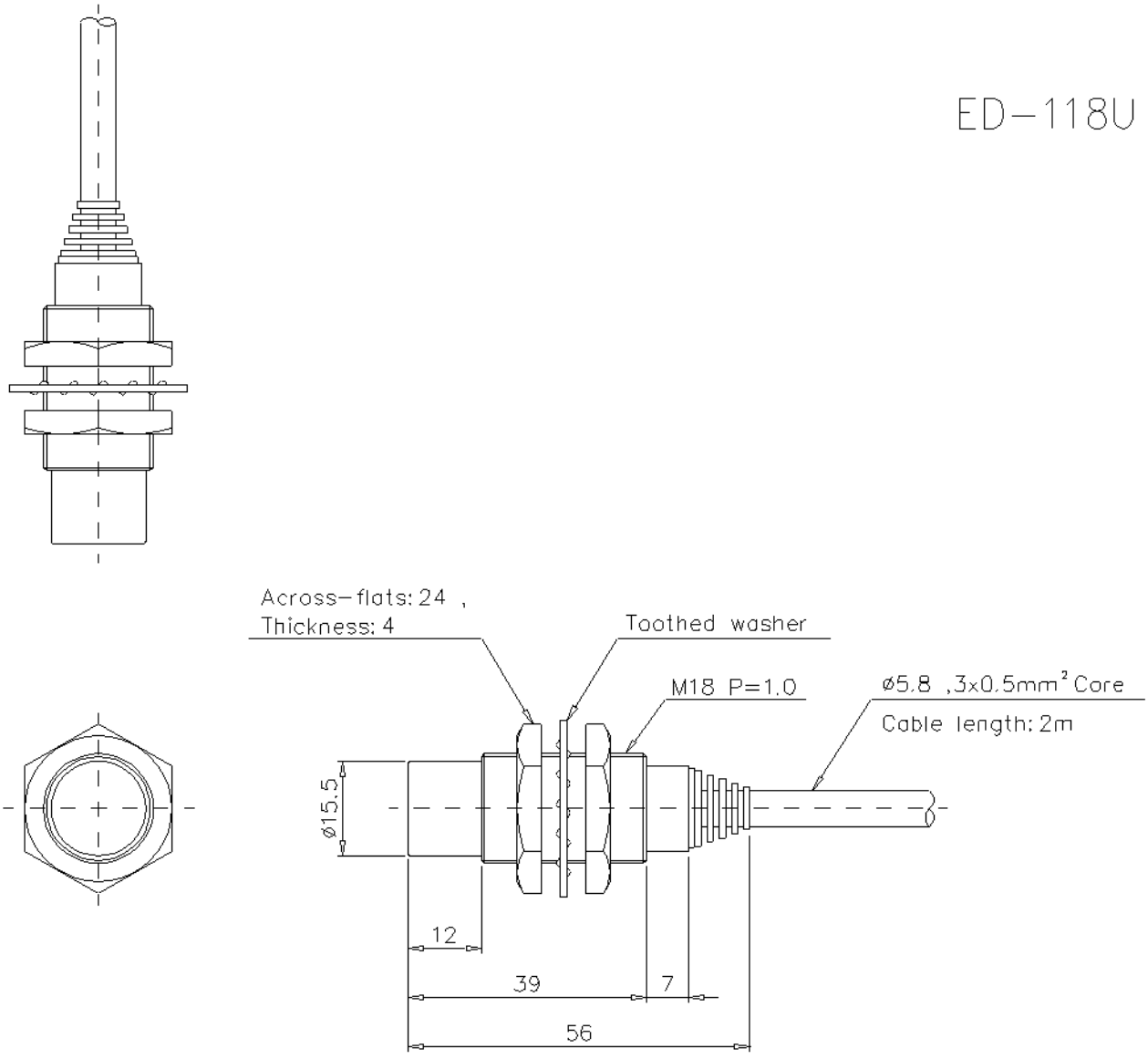
Specifications

Model		ED-118U
Type		Non-shielded
Shape		M18Threaded type
Detecting distance		11 mm 0.43" ±15%
Detectable object		All metals *1
Standard target (aluminum, t=1 mm 0.04")		50 x 50 mm 1.97"
Hysteresis		15% max. of detecting distance
Response frequency		200 Hz
Operation mode		N.O.
Indicator lamp		Operation indicator: Red LED, Stable operation indicator: Green LED
Temperature characteristics		±20% max. of detecting distance at 23°C 73.4°F, within 0 to 50°C 32 to 122°F
Control output		NPN open collector 100 mA max. (40 V max.), Residual voltage: 1 V max.
Protection circuit		Reversed polarity, surge absorber
Rating	Power voltage	12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Current consumption	35 mA or less
Environmental resistance	Enclosure rating	IP67
	Ambient temperature	0 to +50 °C 32 to 122 °F (No freezing)
	Relative humidity	35 to 95 % 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	1,000 m/s^2, 3 times in each of the X, Y, and Z directions
Case material		Nickel-plated brass
Accessories		Screw nut x 2, toothed washer x 1
Weight		Approx. 140 g (including 2-m 6.6' cable and nuts)

*1 When detecting ferrous metals, the detecting distance may decrease.

Dimensions

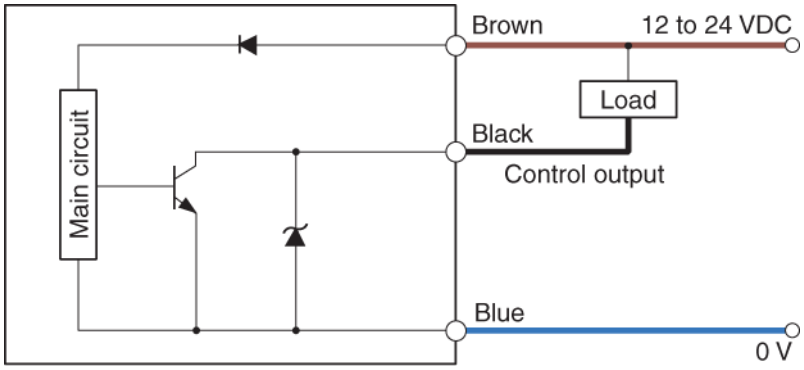
* Download CAD file or product manual for larger image/text and more detail.



I/O Circuit Connection diagram

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

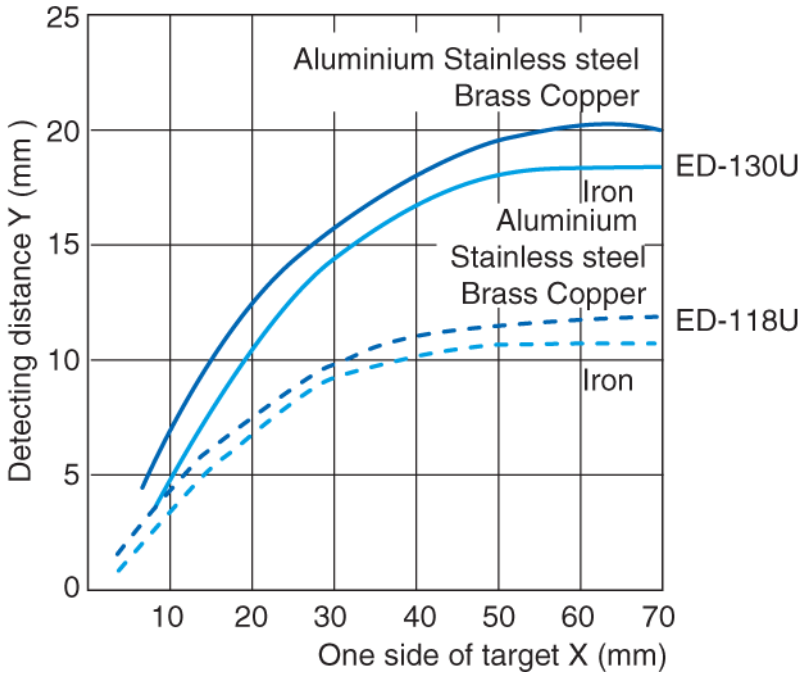
Output Circuits



Characteristic

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

Detecting distance vs. size and target material (Typical)
Iron: SS41, Stainless steel: SUS304, Brass: BS (C3601), Aluminium: Al (A5052), Copper: CU (C1100)



Detecting range (Typical)

