



EZ-30M  
Main Unit, Shielded Type, M30, NPN



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

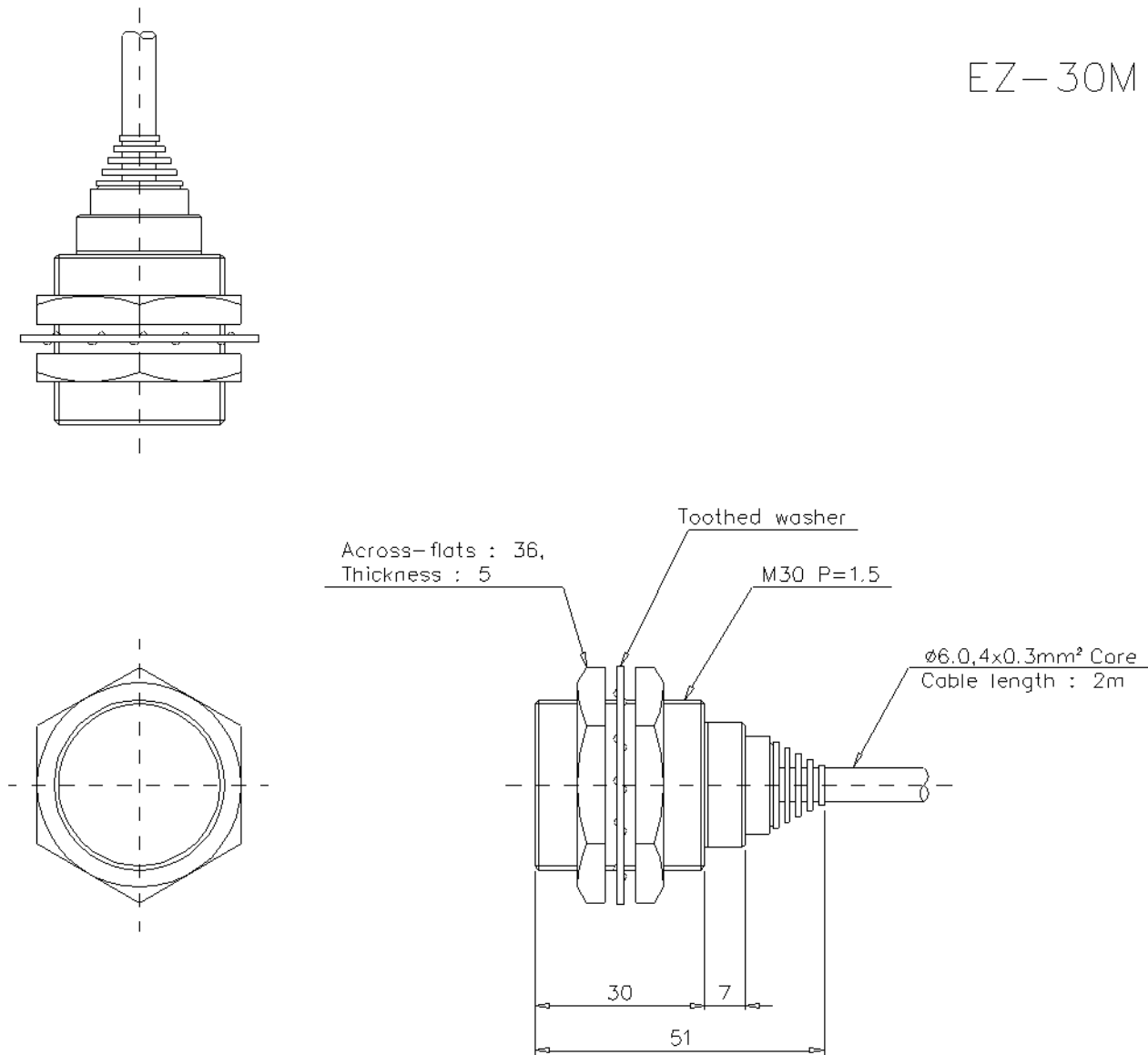
Specifications

|                                        |                      |                                                                                           |
|----------------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| Model                                  |                      | EZ-30M                                                                                    |
| Type                                   |                      | Shielded                                                                                  |
| Shape                                  |                      | M30                                                                                       |
| Detecting distance                     |                      | 10 mm 0.39" ±10%                                                                          |
| Detectable object                      |                      | Ferrous metals (see Characteristics for nonferrous metals)                                |
| Standard target<br>(iron, t=1mm 0.04") |                      | 30 x 30 mm 1.18" x 1.18"                                                                  |
| Hysteresis                             |                      | 10% max. of detecting distance                                                            |
| Response frequency                     |                      | 250 Hz                                                                                    |
| Operation mode                         |                      | N.O./N.C.                                                                                 |
| Temperature characteristics            |                      | ±10% max. of detecting distance at +23°C 73.4°F, within -25 to +70°C -13 to 158°F         |
| Control output                         |                      | NPN open collector 100 mA max. (40 V max.), Residual voltage: 1 V max.                    |
| Cable length                           |                      | 2 m 6.6'                                                                                  |
| Rating                                 | Power voltage        | 12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less                                             |
|                                        | Current consumption  | 13 mA or less                                                                             |
| Environmental resistance               | Enclosure rating     | IP67                                                                                      |
|                                        | Ambient temperature  | -25 to +80 °C -13 to 176 °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 <sup>2</sup> , 3 times in each of the X, Y, and Z directions                    |
| Case material                          |                      | Nickel-plated brass                                                                       |
| Accessories                            |                      | Screw nut x 2,<br>toothed washer x 1                                                      |
| Weight                                 |                      | Approx. 235 g                                                                             |

# Dimensions

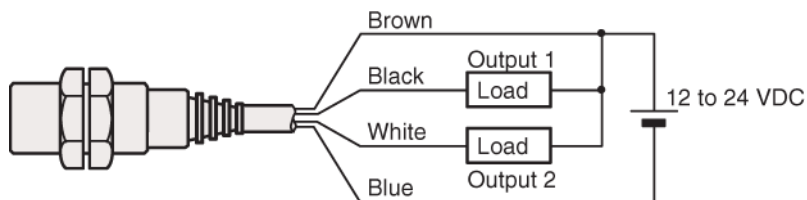
\* Download CAD file or product manual for larger image/text and more detail.

EZ-30M

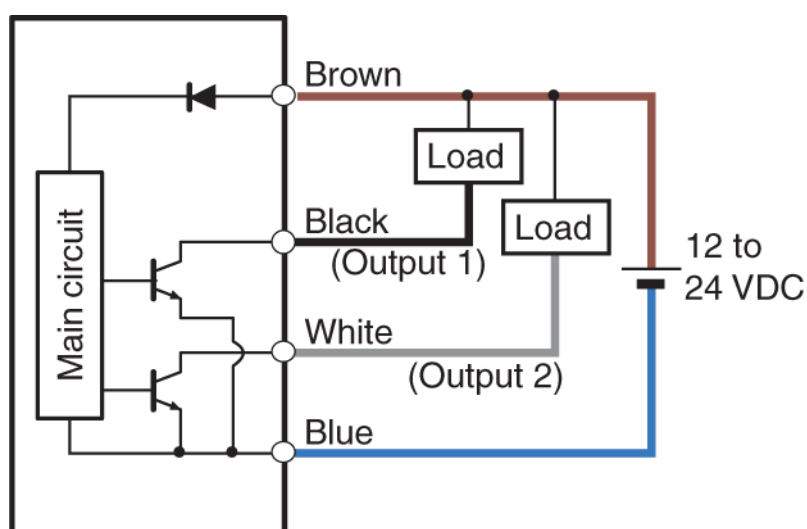


## I/O Circuit Connection diagram

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



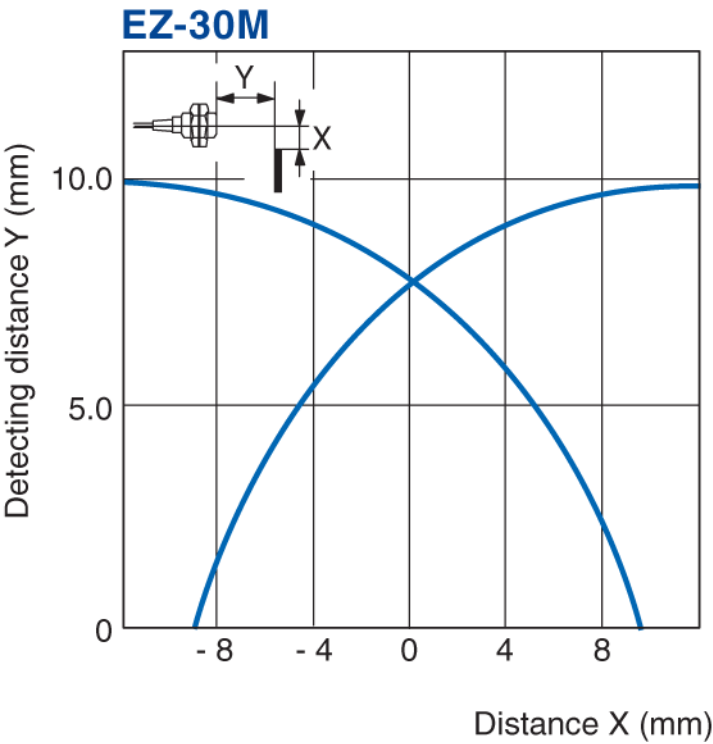
## Input/Output Circuits



# Characteristic

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

## Detecting range (Typical)



Detecting distance vs. size and material of target (Typical)

