

# Data sheet

## Sensor – Proximity Sensor

M18



| MODEL                     | M18                                                                                         |            |
|---------------------------|---------------------------------------------------------------------------------------------|------------|
|                           | Flush                                                                                       | Non-Flush  |
| Sensing Distance - Sd(mm) | 5                                                                                           | 8          |
| Sensing Target (Iron)     | 18x18x1 mm                                                                                  | 18x18x1 mm |
| Sensing Logic             | PNP/NPN - NO/NC                                                                             |            |
| Hysteresis                | 10% of Sd                                                                                   |            |
| Operating Voltage         | 10 - 30V DC                                                                                 |            |
| Residual Voltage          | <1V                                                                                         |            |
| Voltage Drop              | <2.2V                                                                                       |            |
| Current Consumption       | < 15 mA                                                                                     |            |
| Operating Current         | 200 mA                                                                                      |            |
| Operating Temperature     | -25°C to +70°C                                                                              |            |
| Switching Frequency       | 500 Hz                                                                                      | 250 Hz     |
| Dielectric Strength       | 1500VAC-50/60 Hz for 1 minute                                                               |            |
| Protection Circuit        | Surge Protection, Reverse Polarity, Overcurrent Protection                                  |            |
| Shock Test                | 500m/s2 (50G) - X, Y, Z directions for 3 times                                              |            |
| Vibration Test            | 1mm amplitude at a frequency of 10-55 Hz in each of X, Y, Z directions for 2 Hrs            |            |
| Protection Class          | IP67                                                                                        |            |
| Output Indicator          | LED - RED                                                                                   |            |
| Housing                   | Housing-Nickel Plated Brass, Nuts-Nickel Plated Brass(2nos), Washer-Nickel Plated Iron(1no) |            |
| Sensing Face              | ABS Plastic (PNP - Green, NPN - Blue)                                                       |            |
| Connection                | Wire (Brown, Black, Blue) / M12 - 4pin Connector                                            |            |