

Ultrasonic sensor **UR18-CM1** series

**Feature Description**

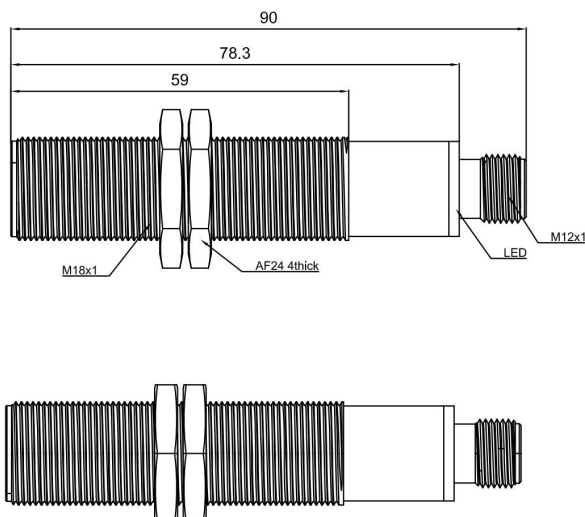
- ◆ M18 threaded sleeve for easy installation
- ◆ 1 NPN or PNP switch output
- ◆ Analog voltage output 0-5/10V or analog current output 4-20mA
- ◆ Digital TTL output
- ◆ Output can be changed through serial port upgrade
- ◆ Setting detection distance through teach-in lines
- ◆ Temperature compensation


**Model specifications**

|       |                 |                 |        |                 |                |
|-------|-----------------|-----------------|--------|-----------------|----------------|
| NPN   | NO/NC           | UR18-CM1DNB-E2  | PNP    | NO/NC           | UR18-CM1DPB-E2 |
| NPN   | Hysteresis mode | UR18-CM1DNH-E2  | PNP    | Hysteresis mode | UR18-CM1DPH-E2 |
| 0-5V  | Analog output   | UR18-CM1DU5-E2  | 4-20mA | Analog output   | UR18-CM1DI-E2  |
| 0-10V | Analog output   | UR18-CM1DU10-E2 | Com    | TTL232          | UR18-CM1DT-E2  |

**Specifications**

|                     |                                      |                        |  |
|---------------------|--------------------------------------|------------------------|--|
| Sensing range       | 60-1000mm                            | Output indication      | Red LED: No target detected in teach-in state, always on |
| Blind area          | 0-60mm                               |                        | Yellow LED: In normal working mode, the switch status    |
| Resolution ratio    | 0.5mm                                |                        | Blue LED: Target detected in teach-in state, flashing    |
| Repeat accuracy     | ±0.15% of full scale value           |                        | Green LED: Power indicator light, always on              |
| Absolute accuracy   | ±1% (temperature drift compensation) | Input type             | With teach-in function                                   |
| Response time       | 100ms                                | Ambient temperature    | -25°C...70°C(248-343K)                                   |
| Switch hysteresis   | 2mm                                  | Storage temperature    | -40°C...85°C(233-358K)                                   |
| Switching frequency | 10Hz                                 | Output characteristics | Support serial port upgrade and change the output type   |
| Power on delay      | <500ms                               | Material               | Copper nickel plating, glass bead filled epoxy resin     |
| Working voltage     | 15...30VDC                           | Protection degree      | IP67   |
| No-load current     | ≤25mA                                | Connection             | 4 pin M12 connector                                      |

**Dimension**

**Wiring diagram**
