

## ◆ Characteristic :

- Maximum distance to grounded metal target.
- Sensitivity adjustment : 20-turn potentiometer (VR).
- Widely applied to detect metal, water, oil,

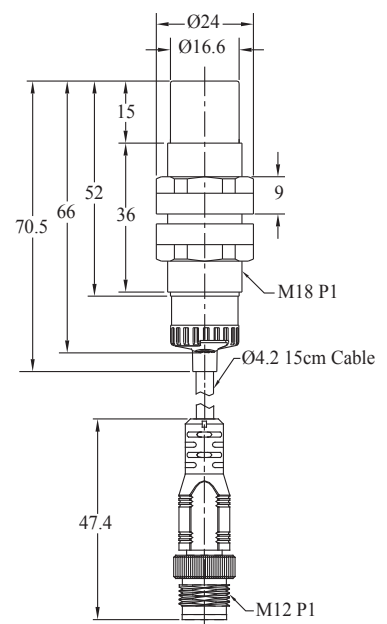
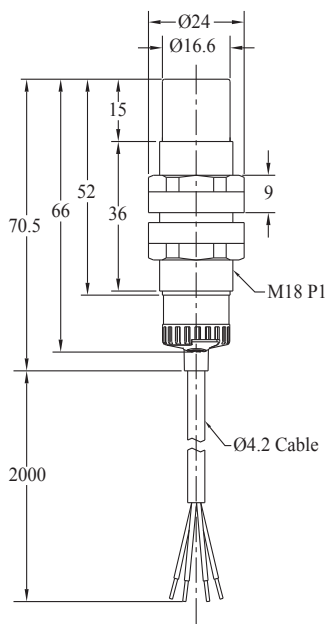
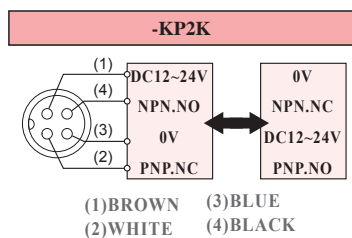
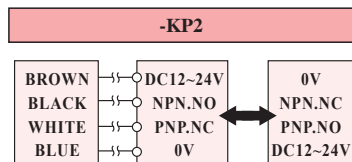


## ◆ Specifications :

| Output method            | NPN N.O./N.C.<br>PNP N.C./N.O. | KC1820-KP2                                 | KC1820-KP2K        |
|--------------------------|--------------------------------|--------------------------------------------|--------------------|
| Sensing distance         |                                | 1 ~ 16 mm                                  |                    |
| Standard sensing object  |                                | Conducting Neutral                         |                    |
| Description              |                                | Standard M18                               |                    |
| Hysteresis               |                                | $\leq 10\%$ of sensing distance            |                    |
| Response time            |                                | 14 ms Max.                                 |                    |
| Operating voltage        |                                | DC 12 ~ 24V                                |                    |
| Current consumption      |                                | $\leq 22$ mA no-load                       |                    |
| Load current             |                                | 100 mA Max. at DC 24V                      |                    |
| Leakage current          |                                | $\leq 1.1$ mA no-load                      |                    |
| Residual voltage         |                                | $\leq$ DC 1.5V                             |                    |
| Insulation resistance    |                                | 20M $\Omega$ min. (DC500V)                 |                    |
| Voltage withstandability |                                | AC1000V 60Hz for 60 Sec.                   |                    |
| Operating temperature    |                                | -20°C ~ +60°C                              |                    |
| Portection degree        |                                | IP 66                                      |                    |
| Wiring method            |                                | Per-wired $\varnothing 4.2$ x 2M / 4-wires | M12 pigtailed type |
| Option (Page 252)        |                                | Bracket : MF-01                            |                    |
| Weight                   |                                | Approx.70g                                 | Approx.35g         |

## ◆ Dimensions (unit:mm)

## ◆ Wiring diagrams



## ◆ Characteristic :

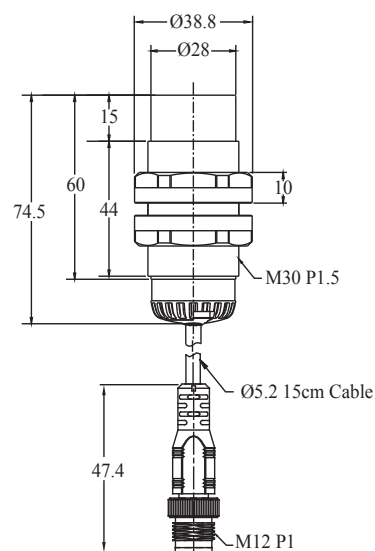
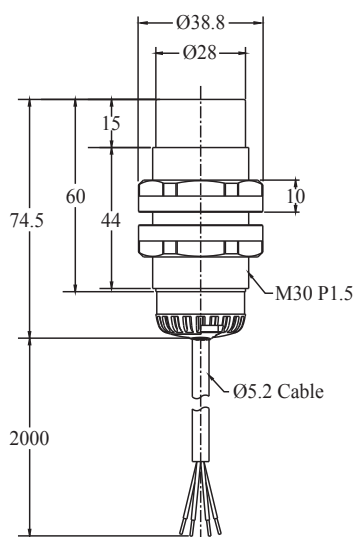
- Maximum distance to grounded metal target.
- Sensitivity adjustment : 20-turn potentiometer (VR).
- Widely applied to detect metal, water, oil, glass, plastics, paper etc.



## ◆ Specifications :

| Output method            | NPN N.O./N.C.<br>PNP N.C./N.O. | KC3035-KP2                       | KC3035-KP2K        |
|--------------------------|--------------------------------|----------------------------------|--------------------|
| Sensing distance         |                                | 2 ~ 30mm                         |                    |
| Standard sensing object  |                                | Conducting Neutral               |                    |
| Description              |                                | Standard M30                     |                    |
| Hysteresis               |                                | ≤ 10 % of sensing distance       |                    |
| Response time            |                                | 10 ms Max.                       |                    |
| Operating voltage        |                                | DC 12 ~ 24V                      |                    |
| Current consumption      |                                | ≤ 22 mA no-load                  |                    |
| Load current             |                                | 100 mA Max. at DC 24V            |                    |
| Leakage current          |                                | ≤ 1.1 mA no-load                 |                    |
| Residual voltage         |                                | ≤ DC 1.5V                        |                    |
| Insulation resistance    |                                | 20M Ω min. (DC500V)              |                    |
| Voltage withstandability |                                | AC1000V 60Hz for 60 Sec.         |                    |
| Operating temperature    |                                | - 20°C ~ + 60°C                  |                    |
| Portection degree        |                                | IP 66                            |                    |
| Wiring method            |                                | Per-wired Ø5.2 x 2M<br>/ 4-wires | M12 pigtailed type |
| Weight                   |                                | Approx.135g                      | Approx.80g         |

## ◆ Dimensions (unit:mm)



## ◆ Wiring diagrams

