

# M30 耐彎抗拉圓管型近接開關

## Tubular Inductive Proximity Sensor

### Characteristic / 特點：

- Special line-out design for bending resistance and tensile. It will upgrade the durability and life.  
/ 獨特的出線包覆設計，抗拉、耐彎曲，提升耐用度和壽命。
- The IP67 rating is designed to the effective waterproof.  
/ 保護結構達到IP67的規格，能有效的防水。
- M30 sensing distance up to 25mm.  
/ M30型超長檢測距離達25mm。
- NP model : NPN + PNP L.on / D.on 4-in-1 outputs.  
/ NP四合一輸出。



| Model / 型號                                                                                                                                                                                                                                                                                                                                  | NPN N.O. / N.C.<br>PNP N.O. / N.C. | PSC3010-NP                               | PSC3010-NPK                        | PSC3018-NP         | PSC3018-NPK                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|------------------------------------|--------------------|------------------------------------|
| Sensing distance / 檢出距離                                                                                                                                                                                                                                                                                                                     |                                    | 10mm ±10%                                |                                    | 18mm ±10%          |                                    |
| Secure sensing distance / 建議距離                                                                                                                                                                                                                                                                                                              |                                    | 0 ~ 8mm                                  |                                    | 0 ~ 14.4 mm        |                                    |
| Standard sensing object / 標準檢測物                                                                                                                                                                                                                                                                                                             |                                    | Iron / 鐵 30× 30 × 1 mm                   |                                    |                    |                                    |
| Sensing type / 檢出方式                                                                                                                                                                                                                                                                                                                         |                                    | Shielded / 隔離型                           |                                    | Unshielded / 非隔離型  |                                    |
| Description / 外型                                                                                                                                                                                                                                                                                                                            |                                    | Standard M30 / 標準M30                     |                                    |                    |                                    |
| Hysteresis / 遲滯                                                                                                                                                                                                                                                                                                                             |                                    | ≤10 % of sensing distance / 檢測距離的 10 %以下 |                                    |                    |                                    |
| Response time / 反應頻率                                                                                                                                                                                                                                                                                                                        |                                    | 300 Hz                                   |                                    |                    |                                    |
| Operating voltage / 工作電壓                                                                                                                                                                                                                                                                                                                    |                                    | DC 12 ~ 30 V                             |                                    |                    |                                    |
| Current consumption / 消耗電流                                                                                                                                                                                                                                                                                                                  |                                    | ≤ 16 mA no-load                          |                                    |                    |                                    |
| Load current / 負載電流                                                                                                                                                                                                                                                                                                                         |                                    | 100 mA                                   |                                    |                    |                                    |
| Residual voltage / 殘餘電壓                                                                                                                                                                                                                                                                                                                     |                                    | ≤ DC 2V                                  |                                    |                    |                                    |
| Insulation resistance / 隔離阻抗                                                                                                                                                                                                                                                                                                                |                                    | 20MΩ min. (DC500V)                       |                                    |                    |                                    |
| Voltage withstandability / 絕緣耐壓                                                                                                                                                                                                                                                                                                             |                                    | AC1000V 60Hz for 60 Sec.                 |                                    |                    |                                    |
| Operating temperature / 工作溫度                                                                                                                                                                                                                                                                                                                |                                    | -20°C ~ + 60°C                           |                                    |                    |                                    |
| Protection degree / 防水等級                                                                                                                                                                                                                                                                                                                    |                                    | IP 67                                    |                                    |                    |                                    |
| Option / 選購配件                                                                                                                                                                                                                                                                                                                               |                                    | M124R-PVC-2M                             |                                    |                    |                                    |
| Wiring method / 出線方式                                                                                                                                                                                                                                                                                                                        |                                    | Ø5.2 x 2M/ 4 wires                       | M12 pigtailed type /<br>M12 出線式接頭型 | Ø5.2 x 2M/ 4 wires | M12 pigtailed type /<br>M12 出線式接頭型 |
| Weight / 重量                                                                                                                                                                                                                                                                                                                                 |                                    | 141g                                     | 88.5g                              | 129g               | 76.5g                              |
| Wiring diagrams / 接線圖                                                                                                                                                                                                                                                                                                                       |                                    |                                          |                                    |                    |                                    |
| -NP                                                                                                                                                                                                                                                                                                                                         |                                    |                                          |                                    |                    |                                    |
| <div><div><div>BROWN</div><div>BLACK</div><div>WHITE</div><div>BLUE</div></div><div><div>DC12~30V</div><div>NPN.NO</div><div>PNP.NO</div><div>0V</div></div><div>↔</div><div><div>0V</div><div>NPN.NC</div><div>PNP.NC</div><div>DC12~30V</div></div></div>                                                                                 |                                    |                                          |                                    |                    |                                    |
| -NPK                                                                                                                                                                                                                                                                                                                                        |                                    |                                          |                                    |                    |                                    |
| <div><div><div>(1)</div><div>(4)</div><div>(3)</div><div>(2)</div></div><div><div>DC12~30V</div><div>NPN.NO</div><div>0V</div><div>PNP.NO</div></div><div>↔</div><div><div>0V</div><div>NPN.NC</div><div>DC12~30V</div><div>PNP.NC</div></div></div> <div><div>(1)BROWN</div><div>(2)WHITE</div><div>(3)BLUE</div><div>(4)BLACK</div></div> |                                    |                                          |                                    |                    |                                    |
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M30

耐彎抗拉圓管型近接開關

Ø3  
Ø4  
M5  
Ø6  
M8  
M12  
M18  
M30

JM  
JN  
KND  
PN  
PND  
RN  
SN

SID  
SIR  
SIA

KC  
KCT  
KCP