

## □ PROXIMITY SWITCHES



|  | TS12-02 Series   | TS12-05 Series | TS18-05 Series | TS18-05 Series | TS30-10 Series | TS30-15 Series |            |
|--|--|----------------|----------------|----------------|----------------|----------------|------------|
| Output Function  | NPN NO-output  | TS12-02N-1     | TS12-05N-1     | TS18-05N-1     | TS18-08N-1     | TS30-10N-1     | TS30-15N-1 |
| Output Stage   | NPN NC-output  | TS12-02N-2     | TS12-05N-2     | TS18-05N-2     | TS18-08N-2     | TS30-10N-2     | TS30-15N-2 |
| 輸出型式   | PNP NO-output  | TS12-02P-1     | TS12-05P-1     | TS18-05P-1     | TS18-08P-1     | TS30-10P-1     | TS30-15P-1 |
|  | PNP NC-output  | TS12-02P-2     | TS12-05P-2     | TS18-05P-2     | TS18-08P-2     | TS30-10P-2     | TS30-15P-2 |
| Sensing Distance / 感應距離                                  | 2mm ± 10%  | 5mm ± 10%      | 5mm ± 10%      | 8mm ± 10%      | 10mm ± 10%     | 15mm ± 10%     |            |
| Setting distance / 有效距離                                  | 0 to 1.6mm   | 0 to 4.0mm     | 0 to 4.0mm     | 0 to 6.4mm     | 0 to 8.0mm     | 0 to 12.0mm    |            |
| Response frequency / 感應頻率                                | 1.5KHz   | 1.5KHz         | 1.5KHz         | 1.5KHz         | 1.0KHz         | 1.0KHz         |            |
| Power supply voltage / 操作電壓<br>(operating voltage range) | 12~24 VDC. Ripple (p-p): 10% max. (10~30 VDC)  |                |                |                |                |                |            |
| Control Load current Output / 負載電流                       | 200 mA max. (32 VDC max.)  |                |                |                |                |                |            |
| Protection circuit / 保護電路                                | Output reverse polarity protection, Power source circuit reverse polarity protection, Surge suppressor, Short-circuit protection<br>短路保護、逆極性保護 |                |                |                |                |                |            |



|  | S17 Series   | S18 Series | SL18 Series | S25 Series | S30 Series | S40 Series  |           |
|--|--|------------|-------------|------------|------------|-------------|-----------|
| Output Function  | NPN NO-output  | S17-05N-1  | S18-05N-1   | SL18-05N-1 | S25-07N-1  | S30-10N-1   | S40-20N-1 |
| Output Stage   | NPN NC-output  | S17-05N-2  | S18-05N-2   | SL18-05N-2 | S25-07N-2  | S30-10N-2   | S40-20N-2 |
| 輸出型式   | PNP NO-output  | S17-05P-1  | S18-05P-1   | SL18-05P-1 | S25-07P-1  | S30-10P-1   | S40-20P-1 |
|  | PNP NC-output  | S17-05P-2  | S18-05P-2   | SL18-05P-2 | S25-07P-2  | S30-10P-2   | S40-20P-2 |
| Sensing Distance / 感應距離                                  | 5mm ± 10%  | 5mm ± 10%  | 5mm ± 10%   | 7mm ± 10%  | 10mm ± 10% | 20mm ± 10%  |           |
| Setting distance / 有效距離                                  | 0 to 4.0mm   | 0 to 4.0mm | 0 to 4.0mm  | 0 to 5.6mm | 0 to 8.0mm | 0 to 16.0mm |           |
| Response frequency / 感應頻率                                | 1.5KHz   | 1.5KHz     | 1.5KHz      | 1.5KHz     | 1.0KHz     | 600Hz       |           |
| Power supply voltage / 操作電壓<br>(operating voltage range) | 12~24 VDC. Ripple (p-p): 10% max. (10~30 VDC)  |            |             |            |            |             |           |
| Control Load current Output / 負載電流                       | 200 mA max. (32 VDC max.)  |            |             |            |            |             |           |
| Protection circuit / 保護電路                                | Output reverse polarity protection, Power source circuit reverse polarity protection, Surge suppressor, Short-circuit protection<br>短路保護、逆極性保護 |            |             |            |            |             |           |

## □ FOOT SWITCHES



EFS-A 15A / EFS-B 10A



EFS-D



FS-1