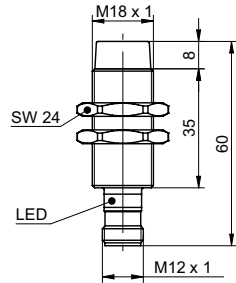


Inductive proximity switch

IFRR 18 (Sn = 12 mm)

sample drawing



general data

| | |
|-----------------------------|------------------|
| mounting type | non-flush |
| nominal sensing distance Sn | 12 mm |
| hysteresis | 2 ... 15 % of Sr |
| output indicator | LED red |

electrical data

| | |
|--|---------------|
| switching frequency | < 500 Hz |
| voltage supply range +Vs | 10 ... 30 VDC |
| current consumption max. (no load) | 10 mA |
| voltage drop Vd | < 2 VDC |
| output current | < 200 mA |
| output current (at cleaning temperature) | < 100 mA |
| short circuit protection | yes |
| reverse polarity protection | yes |

mechanical data

| | |
|-------------------------|-----------------------------------|
| type | cylindrical threaded |
| material (sensing face) | LCP |
| housing material | stainless steel 1.4404 (V4A); LSR |
| dimension | 18 mm |

cable PUR 3 x 0,25, 2 m

| | |
|----------------|-------|
| housing length | 55 mm |
|----------------|-------|

cable PVC, 2 m

| | |
|----------------|-------|
| housing length | 55 mm |
|----------------|-------|

connector M12

| | |
|----------------|-------|
| housing length | 60 mm |
|----------------|-------|

ambient conditions

| | |
|-----------------------|--|
| operating temperature | -40 ... +80 °C |
| cleaning temperature | 80 ... +100 °C (30 min/day) |
| protection class | IP 68/69K & proTect+ |
| vibration resistance | EN 61373: 2010 (category 3), 5h per axis (14.4 gRMS, 10-500 Hz, EN 60068-2-64) |
| shock resistance | EN 61373: 2010 (category 3), 10 bumps per axis (100 g, 6 ms, EN 60068-2-27) |

sample picture



Inductive proximity switch
IFRR 18 (Sn = 12 mm)

| order reference | special type | connection types | output circuit | approvals/certificates |
|----------------------------|-----------------------------------|-------------------------|-------------------------|------------------------|
| IFRR 18N13T1/L-9 | Washdown design | cable PVC, 2 m | NPN make function (NO) | Ecolab |
| IFRR 18N13T1/PL-9 | Outdoor design | cable PUR 3 x 0,25, 2 m | NPN make function (NO) | - |
| IFRR 18N13T1/S14L-9 | Outdoor design Washdown design | connector M12 | NPN make function (NO) | Ecolab |
| IFRR 18N33T1/L-9 | Washdown design | cable PVC, 2 m | NPN break function (NC) | Ecolab |
| IFRR 18N33T1/PL-9 | Outdoor design | cable PUR 3 x 0,25, 2 m | NPN break function (NC) | - |
| IFRR 18N33T1/S14L-9 | Outdoor design Washdown design | connector M12 | NPN break function (NC) | Ecolab |
| IFRR 18P13T1/L-9 | Washdown design | cable PVC, 2 m | PNP make function (NO) | Ecolab |
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| IFRR 18P33T1/S14L-9 | Outdoor design Washdown design | connector M12 | PNP break function (NC) | Ecolab |