

1) Sensing surface, 2) LED yellow, 3) LED green


IND. CONT. EQ 11ZA for use in the secondary of LISTED a class 2 source of supply

Basic features

| Approval/Conformity | CE |
| :--- | :--- |
|  | EULus |
|  | WEEE |
| Basic standard | IEC 60947-5-2 |
| Trademark | Factor 1 |

## Electrical data

| Load capacitance max. at Ue | $0.15 \mu \mathrm{~F}$ |
| :--- | :--- |
| Magnetic field strength, interference <br> field | $100 \mathrm{kA} / \mathrm{m}$ |
| Min. operating current Im | 0 mA |
| No-load current lo max., damped | 20 mA |
| No-load current lo max., undamped | 20 mA |
| Operating voltage Ub | $10 \ldots 30 \mathrm{VDC}$ |
| Protection class | II |
| Rated insulation voltage Ui | 250 V AC |
| Rated operating current le | 200 mA |
| Rated operating voltage Ue DC | 24 V |
| Rated short circuit current | 100 A |
| Ready delay tv max. | 20 ms |
| Residual current Ir max. | $100 \mu \mathrm{~A}$ |
| Switching frequency | 200 Hz |
| Utilization category | $\mathrm{DC}-12$ |
| Voltage drop static max. | 2.5 V |

## Environmental conditions

| Ambient temperature | $-25 \ldots . .70^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Contamination scale | 3 |
| EN 60068-2-27, Shock | Half-sinus, $30 \mathrm{gn}, 11 \mathrm{~ms}$ |
| EN 60068-2-6, Vibration | 55 Hz, amplitude $1 \mathrm{~mm}, 3 \times 30 \mathrm{~min}$ |
| Magnetic field immune | magnetic field immune (AC/DC) |
| Protection degree | IP67 |

Functional safety
\(\left.$$
\begin{array}{ll}\text { Material } & \\
\hline \begin{array}{l}\text { Housing material } \\
\text { Material sensing surface }\end{array} & \mathrm{PA} \\
\text { Mechanical data }\end{array}
$$ \quad \begin{array}{l}40 \times 40 \times 66 \mathrm{~mm} <br>
for flush mounting <br>

40 \times 40\end{array}\right]\)\begin{tabular}{l}
Dimension <br>

| Installation |
| :--- |
| Size | <br>

Output/Interface
\end{tabular}

| Range/Distance |  |
| :--- | :--- |
| Assured operating distance Sa | 16.2 mm |
| Hysteresis H max. (\% of Sr) | $20.0 \%$ |
| Rated operating distance Sn | 20 mm |
| Real switching distance sr | 20 mm |
| Repeat accuracy max. (\% of Sr) | $3.0 \%$ |
| Switching distance marking | $\mathbf{a n}$ |
| Temperature drift max. (\% of Sr) | $10 \%$ |
| Tolerance Sr | $\pm 10 \%$ |

## Remarks

The sensor is functional again after the overload has been eliminated.
LED yellow: Function
LED green: Power
Switching distance and tolerance data apply to the sensing surface location shown.
M12 connector
rotation, locking latch
Sensing surface can be set in 5 positions
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings


## Wiring Diagrams



