

## Electromagnetic Safety Switch

Catalog Numbers 440G-EZS21STLO5J, 440G-EZS21STLO5H
by ROCKWELL AUTOMATION

Table 5 - System Connection of Variant with 1 x M12 Plug Connector, 8-pin

| Attribute | Value |
| :--- | :--- |
| Voltage supply | Convex, M12, 8-pin, A-coded (common plug connector for <br> voltage supply and inputs and outputs) |
| Local inputs and outputs | $150 \mathrm{~mm}(5.9 \mathrm{in})$. |

Table 6 - Electrical

| Attribute | Value |
| :---: | :---: |
| OSSD pairs | 1 |
| Rated impulse withstand voltage $\mathrm{U}_{\mathrm{imp}}$ | 1500 V |
| Pollution degree | 3 (external, according to EN 60947-1) |
| Power-up delay (after supply voltage applied) ${ }^{(1)}$ | 2.5 s |
| Supply voltage when an individual safety switch is connected |  |
| Supply voltage $V_{V}$ sensor | 24V DC (19.2...28.8V) Class 2 supply |
| Supply voltage $V_{V}$ magnet | 24V DC (19.2...28.8V) Class 2 supply |
| Supply voltage when a cascade is connected |  |
| Supply voltage $\mathrm{V}_{\mathrm{V}}$ sensor | 24V DC (22.8...28.8V) Class 2 supply |
| Supply voltage $\mathrm{V}_{\mathrm{v}}$ magnet | 24V DC (21.6...28.8V) Class 2 supply |
| Muting time when supply voltage is interrupted | 4 ms |
| Rated insulation voltage Ui | 32V DC |
| Cable capacitance | 400 nF (for Out A and Out B) |
| Device fuse | 0.6...1 1 |
| Current consumption at 24 V |  |
| Locking device deactivated | 50 mA |
| Locking device active | 350 mA |
| Protection class | III(EN 61140/IEC 61140) |
| Response time ${ }^{(2)}$ | $\leq 50 \mathrm{~ms}^{(3)}$ |
| Release time ${ }^{(4)}$ | $\leq 100 \mathrm{~ms}{ }^{(3)}$ |
| Risk time ${ }^{(5)}$ | $\leq 100 \mathrm{~ms}{ }^{(3)}$ |

(1) Once the supply voltage has been switched on, the OSSDs are in the OFF state during the time delay before availability. The time that is specified applies to one sensor; in a cascade, 0.1 s must be added per sensor.
(2) Response time for moving the OSSDs into the OFF state when the actuator is removed from the response area or when the OSSD input signals go into the OFF state.
(3) In a cascade, the value is multiplied by the number of safety switches in the cascade.
(4) Response time for moving the OSSDs into the ON state when the sensor detects the actuator and the OSSD input signals are in the ON state.
(5) The risk time is the time that is required to detect internal and external faults. External errors affect the OSSDs (short-circuit to an OSSD and cross-circuit between the two OSSDs). At least one of the two OSSDs is safely switched off during the risk time.

Table 7 - Mechanical Data

| Attribute | Value |
| :---: | :---: |
| Dimensions (W x H x D |  |
| Safety switch | $120 \times 60 \times 38.5 \mathrm{~mm}(4.72 \times 2.36 \times 1.52 \mathrm{in}$.) |
| Actuator | $120 \times 60 \times 20.5 \mathrm{~mm}(4.72 \times 2.36 \times 0.81 \mathrm{in}$.) |
| Material |  |
| Sensor housing | Anodized aluminum |
| Actuator housing | Fiber-glass-reinforced PVC |
| Anchor plate | Nickel-plated steel |
| Weight |  |
| Safety switch | 510 g (18 oz) |
| Actuator | 210 g (7.41 oz) |

