

# Emergency Stop Switch

## Contact Block

# SC21J01S

Part Number



- Including illumination module
- Integrated defect protection

Contact blocks are suitable for applications up to PL e per EN ISO 13849-1 and up to SIL CL 3 per EN 62061.

## Technical Data

### Electrical Data

|                                      |                        |
|--------------------------------------|------------------------|
| Temperature Range                    | -30...70 °C            |
| Storage temperature                  | -50...85 °C            |
| Service Life (nominal load)          | 20000 Switching Cycles |
| Protective Insulation, Rated Voltage | 250 V                  |

### Mechanical Data

|                              |                        |
|------------------------------|------------------------|
| Contact material             | AgNi                   |
| Service Life                 | 20000 Switching Cycles |
| Bounce time                  | < 10 ms                |
| Connection                   | Screw-type connection  |
| Clampable Wire Cross-Section | 2,5 mm <sup>2</sup>    |

### Safety-relevant Data

|                                      |         |
|--------------------------------------|---------|
| B10d Switching Cycles                | 104 000 |
| Number of positively driven contacts | 2       |
| NO Contacts                          | 1       |

### Function

|                  |     |
|------------------|-----|
| Fault Protection | yes |
| Lighting module  | yes |

|                     |        |
|---------------------|--------|
| Applicable actuator | SEAL01 |
|---------------------|--------|

Connection Diagram No.

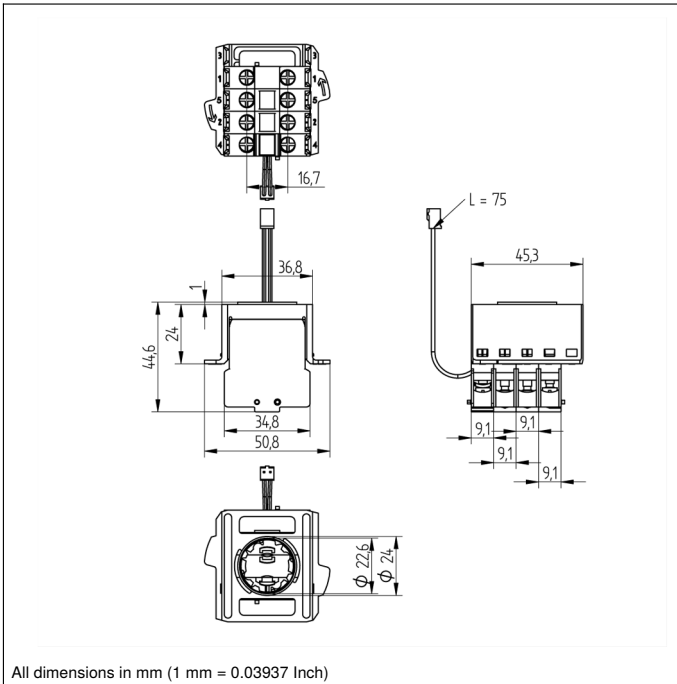
**P09**

Actuator must be ordered separately (not included in delivery)

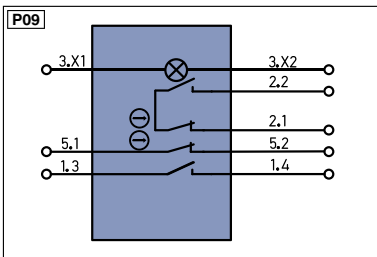
## Complementary Products

Safety Relay SR4B3B01S, SR4D3B01S

Software



All dimensions in mm (1 mm = 0.03937 Inch)



**Legend**

|  |   |                                      |
|--|---|--------------------------------------|
| <b>+</b> Supply Voltage +                                  | <b>PT</b> Platinum measuring resistor     | <b>EN1RS42Z</b> Encoder A/Ā (TTL)    |
| <b>-</b> Supply Voltage 0 V                                | <b>nc</b> not connected                   | <b>EN2RS42Z</b> Encoder B/B̄ (TTL)   |
| <b>~</b> Supply Voltage (AC Voltage)                       | <b>U</b> Test Input                       | <b>ENa</b> Encoder A                 |
| <b>A</b> Switching Output (NO)                             | <b>Ū</b> Test Input inverted              | <b>ENb</b> Encoder B                 |
| <b>Ā</b> Switching Output (NC)                             | <b>W</b> Trigger Input                    | <b>AMIN</b> Digital output MIN       |
| <b>V</b> Contamination/Error Output (NO)                   | <b>W-</b> Ground for the Trigger Input    | <b>AMAX</b> Digital output MAX       |
| <b>Ṽ</b> Contamination/Error Output (NC)                   | <b>O</b> Analog Output                    | <b>AOk</b> Digital output OK         |
| <b>E</b> Input (analog or digital)                         | <b>O-</b> Ground for the Analog Output    | <b>SY in</b> Synchronization In      |
| <b>T</b> Teach Input                                       | <b>BZ</b> Block Discharge                 | <b>SY OUT</b> Synchronization OUT    |
| <b>Z</b> Time Delay (activation)                           | <b>AWV</b> Valve Output                   | <b>OLt</b> Brightness output         |
| <b>S</b> Shielding   | <b>a</b> Valve Control Output +           | <b>M</b> Maintenance                 |
| <b>RxD</b> Interface Receive Path                          | <b>b</b> Valve Control Output 0 V         | <b>rsv</b> reserved                  |
| <b>TxD</b> Interface Send Path                             | <b>SY</b> Synchronization                 | Wire Colors according to DIN IEC 757 |
| <b>RDY</b> Ready   | <b>SY-</b> Ground for the Synchronization | <b>BK</b> Black                      |
| <b>GND</b> Ground  | <b>E+</b> Receiver-Line                   | <b>BN</b> Brown                      |
| <b>CL</b> Clock  | <b>S+</b> Emitter-Line                    | <b>RD</b> Red                        |
| <b>E/A</b> Output/Input programmable                       | <b>⊕</b> Grounding                        | <b>OG</b> Orange                     |
| <b>IO-Link</b>   | <b>SnR</b> Switching Distance Reduction   | <b>YE</b> Yellow                     |
| <b>PoE</b> Power over Ethernet                             | <b>Rx+/-</b> Ethernet Receive Path        | <b>GN</b> Green                      |
| <b>IN</b> Safety Input                                     | <b>Tx+/-</b> Ethernet Send Path           | <b>BU</b> Blue                       |
| <b>OSSD</b> Safety Output                                  | <b>Bus</b> Interfaces-Bus A(+)/B(-)       | <b>VT</b> Violet                     |
| <b>Signal</b> Signal Output                                | <b>La</b> Emitted Light disengageable     | <b>GY</b> Grey                       |
| <b>Bl..D+/-</b> Ethernet Gigabit bidirect. data line (A-D) | <b>Mag</b> Magnet activation              | <b>WH</b> White                      |
| <b>EN0RS42Z</b> Encoder 0-pulse 0-0̄ (TTL)                 | <b>RES</b> Input confirmation             | <b>PK</b> Pink                       |
|  | <b>EDM</b> Contactor Monitoring           | <b>GNYE</b> Green/Yellow             |

