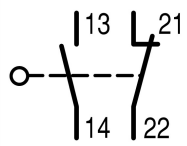
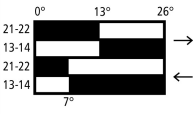
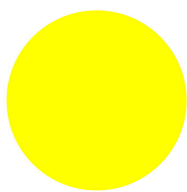


Position switch, Spring-rod actuator, Complete unit, 1 N/O, 1 NC, Snap-action contact - Yes, Screw terminal, Yellow, Insulated material, -25 - +70 °C, Not to be used as a safety position switch



Part no. LS-S11S/S
Catalog No. 106805
Alternate Catalog No. LS-S11S-S
EL-Nummer (Norway) 4315218

Delivery program

| | | |
|---|----|--|
| Basic function | | Position switches |
| Part group reference | | LS(M)-... |
| Product range | | Spring-rod actuator |
| Degree of Protection | | IP66, IP67 |
| Features | | Complete unit |
| Ambient temperature | °C | -25 - +70 |
| Snap-action contact | | Yes |
| Description | | Not to be used as a safety position switch |
| Contacts | | |
| N/O = Normally open | | 1 N/O |
| N/C = Normally closed | | 1 NC |
| Contact sequence | |  |
| Contact travel <input checked="" type="checkbox"/> = Contact closed <input type="checkbox"/> = Contact open | |  |
| Colour | | |
| Enclosure covers | | Yellow |
| Enclosure covers | |  |
| Housing | | Insulated material |
| Connection type | | Screw terminal |
| Rod length | mm | 126 |
| Notes The operating head can be rotated at 90° intervals to adapt to the specified approach direction. | | |

Technical data

General

| | | | |
|-----------------------|--|-----------------|--|
| Standards | | | IEC/EN 60947 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30 |
| Ambient temperature | | °C | -25 - +70 |
| Mounting position | | | As required |
| Degree of Protection | | | IP66, IP67 |
| Terminal capacities | | mm ² | |
| Solid | | mm ² | 1 x (0.5 - 2.5) |
| Flexible with ferrule | | mm ² | 1 x (0.5 - 1.5) |
| Repetition accuracy | | mm | 0.15 |

Contacts/switching capacity

| | | | |
|--|-----------|-------------------|--|
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 |
| Rated insulation voltage | U_i | V | 400 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated operational current | I_e | A | |
| AC-15 | | | |
| 24 V | I_e | A | 6 |
| 220 V 230 V 240 V | I_e | A | 6 |
| 380 V 400 V 415 V | I_e | A | 4 |
| DC-13 | | | |
| 24 V | I_e | A | 3 |
| 110 V | I_e | A | 0.6 |
| 220 V | I_e | A | 0.3 |
| Control circuit reliability | | | |
| at 24 V DC/5 mA | H_F | Fault probability | $< 10^{-7}$, < 1 fault in 10^7 operations |
| at 5 V DC/1 mA | H_F | Fault probability | $< 5 \times 10^{-6}$, < 1 failure at 5×10^6 operations |
| Supply frequency | | Hz | max. 400 |
| Short-circuit rating to IEC/EN 60947-5-1 | | | |
| max. fuse | | A gG/gL | 6 |
| Rated conditional short-circuit current | | kA | 1 |

Mechanical variables

| | | | |
|--|--------------|---------------|-------------|
| Lifespan, mechanical | Operations | $\times 10^6$ | 8 |
| Mechanical shock resistance (half-sinusoidal shock, 20 ms) | | | |
| Standard-action contact | | g | 25 |
| Operating frequency | Operations/h | | ≤ 6000 |

Actuation

| | | | |
|--|--|----|---------|
| Mechanical | | | |
| Actuating force at beginning/end of stroke | | N | 1.0/8.0 |
| Actuating torque of rotary drives | | Nm | 0.2 |

Design verification as per IEC/EN 61439

| | | | |
|--|------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 6 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0.17 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |

| | | |
|--|--|--|
| 10.2.3.1 Verification of thermal stability of enclosures | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | Is the panel builder's responsibility. |
| 10.9 Insulation properties | | |
| 10.9.2 Power-frequency electric strength | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1)
(ec1@ss10.0.1-27-27-06-01 [AGZ382015])

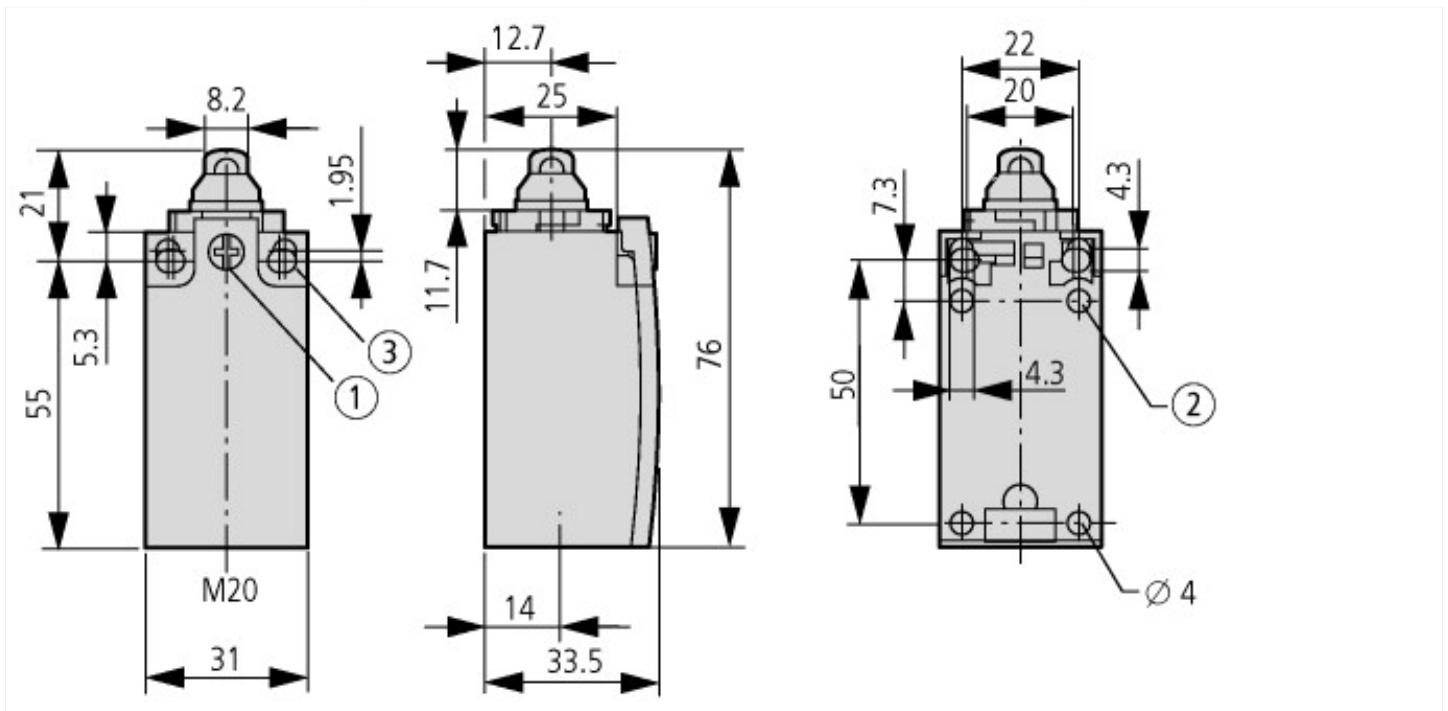
| | | |
|--|----|--------------------|
| Width sensor | mm | 31 |
| Diameter sensor | mm | 0 |
| Height of sensor | mm | 61 |
| Length of sensor | mm | 33.5 |
| Rated operation current I _e at AC-15, 24 V | A | 6 |
| Rated operation current I _e at AC-15, 125 V | A | 6 |
| Rated operation current I _e at AC-15, 230 V | A | 6 |
| Rated operation current I _e at DC-13, 24 V | A | 3 |
| Rated operation current I _e at DC-13, 125 V | A | 0.8 |
| Rated operation current I _e at DC-13, 230 V | A | 0.3 |
| Switching function | | Quick-break switch |
| Switching function latching | | No |
| Output electronic | | No |
| Forced opening | | No |
| Number of safety auxiliary contacts | | 1 |
| Number of contacts as normally closed contact | | 1 |
| Number of contacts as normally open contact | | 1 |
| Number of contacts as change-over contact | | 0 |
| Type of interface | | None |
| Type of interface for safety communication | | None |
| Construction type housing | | Cuboid |
| Material housing | | Plastic |
| Coating housing | | Other |
| Type of control element | | Spring-rod |
| Alignment of the control element | | Other |
| Type of electric connection | | Other |
| With status indication | | No |

| | | |
|--------------------------------------|----|---------|
| Suitable for safety functions | | Yes |
| Explosion safety category for gas | | None |
| Explosion safety category for dust | | None |
| Ambient temperature during operating | °C | 25 - 70 |
| Degree of protection (IP) | | IP67 |
| Degree of protection (NEMA) | | 4X |

Approvals

| | | |
|-----------------------------|--|---|
| Product Standards | | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking |
| UL File No. | | E29184 |
| UL Category Control No. | | NKCR |
| CSA File No. | | 12528 |
| CSA Class No. | | 3211-03 |
| North America Certification | | UL listed, CSA certified |
| Degree of Protection | | IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13 |

Dimensions



- ① Tightening torque of cover screws: 0.8 Nm \pm 0.2 Nm
 - ② only with LS (insulated version)
 - ③ Fixing screws 2 x M4 \geq 30
- $M_A = 1.5$ Nm

