



## Key-operated actuator, 2 positions, green, maintained

Part no. **Q18S1R-GN**  
Article no. **062151**  
Catalog No. **Q18S1R-GN**

### Delivery program

|  |  |  |   |
|--|--|--|---|
| Product range  |  |  | RMQ16   |
| Basic function   |  |  | Key-operated buttons  |
| Single unit/Complete unit  |  |  | Single unit   |
| Design   |  |  | Key operated<br>maintained                                  |
| <b>Function:</b>   |  |  |   |
|  |  |  | 45°   |
|  |  |  | 2 positions   |
| <b>Key withdrawable in position</b>  |  |  | 0   |
| Degree of Protection   |  |  | IP65  |
| Front ring   |  |  | without bezel   |
| Connection to SmartWire-DT   |  |  | no  |
| Front dimensions   |  |  | Front dimensions 18 × 18 mm                                 |
| Information about equipment supplied   |  |  | With 1 key  |
| Ordering information   |  |  | For each color there is a corresponding key, → accessories, |
| <b>Notes</b>   |  |  |   |
| Additional individual lock mechanisms (each colour corresponds with a separate lock mechanism) |  |  |   |

### Technical data

#### General

|                                    |              |                   |  |
|------------------------------------|--------------|-------------------|--|
| Standards                          |              |                   | IEC/EN 60947   |
| Lifespan, mechanical               | Operations   | x 10 <sup>6</sup> | > 3  |
| Operating frequency                | Operations/h |                   | 1800   |
| Operating torque                   |              | Nm                | 0.4  |
| Degree of protection, IEC/EN 60529 |              |                   | IP65   |
| Climatic proofing                  |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature                |              |                   |  |
| Open                               |              | °C                | -25 - +60  |
| Enclosed                           |              | °C                | - 25 - 40  |
| Mounting position                  |              |                   | As required  |
| Mechanical shock resistance        |              | g                 | > 40<br>according to IEC 60068-2-27<br>Shock duration 11 ms<br>Sinusoidal      |
| Terminal capacities                |              | mm <sup>2</sup>   | 0.5 - 1.0  |
| Blade terminal                     |              |                   | 2.8 x 0.8 mm to DIN 46244  |
| Fast-on connectors                 |              |                   | 2.8 x 0.8 mm to DIN 46247 and IEC 60760  |

#### Contacts

|                                       |                  |                   |  |
|---------------------------------------|------------------|-------------------|--|
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC              | 800  |
| Rated insulation voltage              | U <sub>i</sub>   | V                 | 250  |
| Overvoltage category/pollution degree |                  |                   | III/3  |
| Rated operational voltage             | U <sub>e</sub>   | V AC              | 24   |
| Control circuit reliability           |                  |                   |  |
| at 24 V DC/5 mA                       | H <sub>F</sub>   | Fault probability | < 10 <sup>-7</sup> , < 1 failure in 10 <sup>7</sup> operations         |
| at 5 V DC/1 mA                        | H <sub>F</sub>   | Fault probability | < 5 x 10 <sup>-6</sup> , < 1 failure in 5 x 10 <sup>6</sup> operations |

|                                  |  |   |
|----------------------------------|--|---|
| Use of insulated ferrule ISH 2,8 |  | On >24 V AC/DC recommended<br>On >50 V AC or 120 V DC mandatory, also on unoccupied blade terminals |
|----------------------------------|--|---|

## Design verification as per IEC/EN 61439

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification   |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 0  |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 0  |
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub>  | W  | 0  |
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity  | P <sub>diss</sub> | W  | 0  |
| Operating ambient temperature min.   |                   | °C | -25  |
| Operating ambient temperature max.   |                   | °C | 60   |
| 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   |                   |    | Please enquire   |
| 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   |                   |    | Not applicable.  |
| 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 6.0

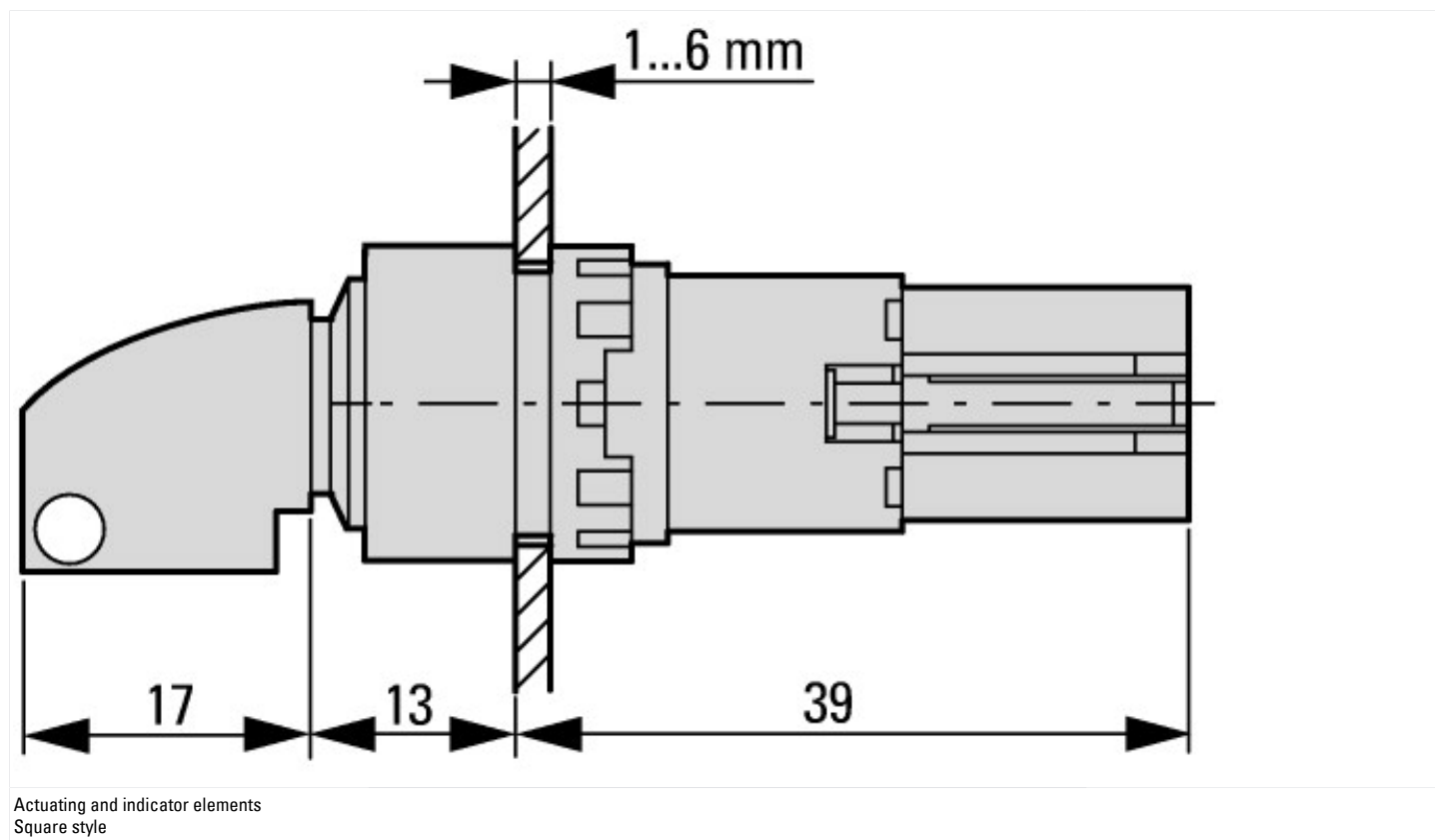
|  |  |    |                |
|--|--|----|----------------|
| Low-voltage industrial components (EG000017) / Front element for selector switch (EC000222)  |  |    |                |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss8.1-27-37-12-13 [AKF031011]) |  |    |                |
| Number of switch positions   |  |    | 2              |
| Type of control element  |  |    | Key            |
| Suitable for illumination  |  |    | No             |
| Colour control element   |  |    | Green          |
| Colour indicator light cap   |  |    | Not applicable |
| Construction type lens   |  |    | Square         |
| Hole diameter  |  | mm | 16             |
| Width opening  |  | mm | 0              |
| Height meter opening   |  | mm | 0              |
| Switching function latching  |  |    | Yes            |
| Spring-return  |  |    | No             |
| Degree of protection (IP), front side  |  |    | IP65           |

|                     |  |         |
|---------------------|--|---------|
| With front ring     |  | Yes     |
| Material front ring |  | Plastic |
| Colour front ring   |  | Black   |

## Approvals

|                             |  |   |
|-----------------------------|--|---|
| Product Standards           |  | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No.                 |  | E29184  |
| UL Category Control No.     |  | NKCR  |
| CSA File No.                |  | 46552   |
| CSA Class No.               |  | 3211-03   |
| North America Certification |  | UL listed, CSA certified                                |
| Degree of Protection        |  | UL/CSA Type 1   |

## Dimensions



## Additional product information (links)

### IL04716016Z (AWA1160-1429) Mounting of components

|   |   |
|---|---|
| IL04716016Z (AWA1160-1429) Mounting of components | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716016Z2011_03.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716016Z2011_03.pdf</a> |
|---|---|