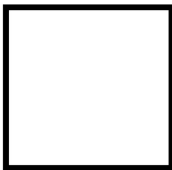
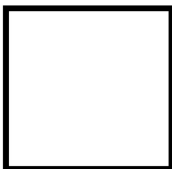



**Illuminated pushbutton actuator, white, momentary, +filament lamp 24V**
**Part no. Q18LT-WS/WB**  
**Catalog No. 088561**  
**Alternate Catalog No. Q18LT-WS/WB**

## Delivery program

|                            |   |    |                                                                                     |
|----------------------------|---|----|-------------------------------------------------------------------------------------|
| Product range              |   |    | RMQ16                                                                               |
| Basic function             |   |    | Illuminated pushbutton actuators                                                    |
| Mounting hole diameter     | Ø | mm | 16                                                                                  |
| Single unit/Complete unit  |   |    | Single unit                                                                         |
| Design                     |   |    | Flat                                                                                |
|                            |   |    | momentary                                                                           |
| <b>Colour</b>              |   |    |                                                                                     |
| Lens                       |   |    |   |
| <b>Button plate</b>        |   |    |                                                                                     |
| button plate               |   |    | White                                                                               |
| Button plate               |   |    |  |
|                            |   |    | Blank                                                                               |
| Degree of Protection       |   |    | IP65                                                                                |
| Connection to SmartWire-DT |   |    | no                                                                                  |

## Technical data

### General

|                                    |              |               |                                                                                |
|------------------------------------|--------------|---------------|--------------------------------------------------------------------------------|
| Standards                          |              |               | IEC/EN 60947                                                                   |
| Lifespan, mechanical               | Operations   | $\times 10^6$ | > 3                                                                            |
| Operating frequency                | Operations/h |               | $\leq 3600$                                                                    |
| Actuating force                    |              | n             | $\leq 4$                                                                       |
| 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      |
| 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       | $U_{imp}$ | V AC | 800   |
| Rated insulation voltage              | $U_i$     | V    | 250   |
| Overvoltage category/pollution degree |           |      | III/3 |
| Rated operational voltage             | $U_e$     | V AC | 24    |

|                                  |                |                   |                                                                                              |
|----------------------------------|----------------|-------------------|----------------------------------------------------------------------------------------------|
| Control circuit reliability      |                |                   |                                                                                              |
| at 24 V DC/5 mA                  | H <sub>F</sub> | Fault probability | < 10 <sup>-7</sup> , < 1 faults in 10 <sup>7</sup> switch 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 |                |                   | >24 V AC/DC recommended<br>>50 V AC or 120 V DC is mandatory, even on unused 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  | 1                                                                                                                                |
| 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                                                                                                 |                   |    | 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

|                                                                                                                                                                                                           |  |    |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--------|
| Low-voltage industrial components (EG000017) / Front element for push button (EC000221)                                                                                                                   |  |    |        |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ec1@ss10.0.1-27-37-12-10 [AKF028014]) |  |    |        |
| Colour button                                                                                                                                                                                             |  |    | White  |
| Number of command positions                                                                                                                                                                               |  |    | 1      |
| Construction type lens                                                                                                                                                                                    |  |    | Square |
| Hole diameter                                                                                                                                                                                             |  | mm | 16     |
| Width opening                                                                                                                                                                                             |  | mm | 0      |
| Height opening                                                                                                                                                                                            |  | mm | 0      |
| Type of button                                                                                                                                                                                            |  |    | Flat   |

|                                         |  |         |
|-----------------------------------------|--|---------|
| Suitable for illumination               |  | Yes     |
| With protective cover                   |  | No      |
| Labelled                                |  | No      |
| Switching function latching             |  | No      |
| Spring-return                           |  | Yes     |
| With front ring                         |  | Yes     |
| Material front ring                     |  | Plastic |
| Colour front ring                       |  | Black   |
| Degree of protection (IP), front side   |  | IP65    |
| Degree of protection (NEMA), front side |  | 1       |

## 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

