

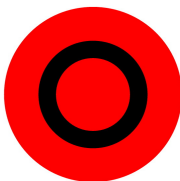


**Illuminated pushbutton actuator, RMQ-Titan, Extended, momentary, red, inscribed, Bezel: black**

**Part no.** M22S-DLH-R-X0  
**Catalog No.** 216976  
**Alternate Catalog No.** M22S-DLH-R-X0Q



## Delivery program

|                            |   |    |                                                                                    |
|----------------------------|---|----|------------------------------------------------------------------------------------|
| Product range              |   |    | RMQ-Titan                                                                          |
| Basic function             |   |    | Illuminated pushbutton actuators                                                   |
| Mounting hole diameter     | Ø | mm | 22.5                                                                               |
| Single unit/Complete unit  |   |    | Single unit                                                                        |
| Design                     |   |    | Extended<br>momentary                                                              |
| <b>Button plate</b>        |   |    |                                                                                    |
| button plate               |   |    | red                                                                                |
| Button plate               |   |    |  |
|                            |   |    | inscribed                                                                          |
| Degree of Protection       |   |    | IP66, IP67, IP69                                                                   |
| Front ring                 |   |    | Bezel: black                                                                       |
| Connection to SmartWire-DT |   |    | yes<br>with SWD-RMQ connections                                                    |

## Technical data

### General

|                             |              |                   |                                                                                                                                                                                                                                                                  |
|-----------------------------|--------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                   |              |                   | IEC/EN 60947<br>VDE 0660                                                                                                                                                                                                                                         |
| Lifespan, mechanical        | Operations   | x 10 <sup>6</sup> | > 5                                                                                                                                                                                                                                                              |
| Operating frequency         | Operations/h |                   | ≤ 3600                                                                                                                                                                                                                                                           |
| Actuating force             |              | n                 | ≤ 5                                                                                                                                                                                                                                                              |
| Climatic proofing           |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30                                                                                                                                                                                   |
| Degree of Protection        |              |                   | IP66, IP67, IP69                                                                                                                                                                                                                                                 |
| Ambient temperature         |              |                   |                                                                                                                                                                                                                                                                  |
| Open                        |              | °C                | -25 - +70                                                                                                                                                                                                                                                        |
| Mounting position           |              |                   | As required                                                                                                                                                                                                                                                      |
| Mechanical shock resistance |              | g                 | 30<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27                                                                                                                                                                                          |
| shipping classification     |              |                   | DNV<br>GL<br>LR                                                                                                                                                                                                                                                  |
|                             |              |                   |    |

## 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 | 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                                                                       |                   |    | 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 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 (ecI@ss10.0.1-27-37-12-10 [AKF028014]) |  |    |         |
| Colour button                                                                                                                                                                                             |  |    | Red     |
| Number of command positions                                                                                                                                                                               |  |    | 1       |
| Construction type lens                                                                                                                                                                                    |  |    | Round   |
| Hole diameter                                                                                                                                                                                             |  | mm | 22.5    |
| Width opening                                                                                                                                                                                             |  | mm | 0       |
| Height opening                                                                                                                                                                                            |  | mm | 0       |
| Type of button                                                                                                                                                                                            |  |    | High    |
| Suitable for illumination                                                                                                                                                                                 |  |    | Yes     |
| With protective cover                                                                                                                                                                                     |  |    | No      |
| Labelled                                                                                                                                                                                                  |  |    | Yes     |
| 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   |  | IP67/IP69K |
| Degree of protection (NEMA), front side |  | 4X         |

## Approvals

|                             |  |                                                                              |
|-----------------------------|--|------------------------------------------------------------------------------|
| Product Standards           |  | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94-91; CE marking |
| UL File No.                 |  | E29184                                                                       |
| UL Category Control No.     |  | NKCR                                                                         |
| CSA File No.                |  | 012528                                                                       |
| CSA Class No.               |  | 3211-03                                                                      |
| North America Certification |  | UL listed, CSA certified                                                     |
| Degree of Protection        |  | UL/CSA Type 3R, 4X, 12, 13                                                   |

## Dimensions

