




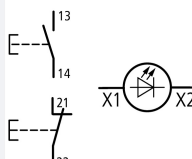




**Double actuator pushbutton, RMQ-Titan, Actuators and indicator lights non-flush, momentary, 1 NC, 1 N/O, White lens, LED element, 85 - 264 V AC, green, red, inscribed, Bezel: titanium**




**Part no.** M22-DDL-GR-X1/X0/K11/230-W  
**Catalog No.** 216509  
**Alternate Catalog No.** M22-DDLGR-X1X0K11QWQ  
**EL-Nummer (Norway)** 4355282

## Delivery program

|   |    |    |   |
|---|----|----|---|
| Product range   |    |    | RMQ-Titan   |
| Basic function  |    |    | Double actuators  |
| Mounting hole diameter  | Ø  | mm | 22.5  |
| Single unit/Complete unit   |    |    | Complete unit   |
| Design  |    |    | Actuators and indicator lights non-flush  |
|   |    |    | momentary   |
| Connection type   |    |    | Screw connection  |
| Description   |    |    | White lens<br>LED element<br>85 - 264 V AC  |
| <b>Button plate</b>   |    |    |   |
| button plate  |    |    | green, red  |
| Button plate  |    |    |    |
|   |    |    | inscribed   |
| Degree of Protection  |    |    | IP66  |
| Front ring  |    |    | Bezel: titanium   |
| Connection to SmartWire-DT  |    |    | no  |
| <b>Contacts</b>   |    |    |   |
| N/C = Normally closed   |    |    | 1 NC   |
| N/O = Normally open   |    |    | 1 N/O   |
| Notes   |    |    |  = safety function, by positive opening to IEC/EN 60947-5-1  |
| <b>Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1</b> |    |    |   |
|   | mm |    | 4.8   |
| Maximum travel  | mm |    | 5.7   |
| Minimum force for positive opening  | N  |    | 15  |
| Contact sequence  |    |    |   |

## Technical data

### General

|                             |              |                   |  |
|-----------------------------|--------------|-------------------|--|
| Standards                   |              |                   | IEC/EN 60947<br>VDE 0660   |
| Lifespan, mechanical        | Operations   | x 10 <sup>6</sup> | > 1  |
| Operating frequency         | Operations/h |                   | ≤ 1800   |
| 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   |
| 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  |
|                             |              |                   |    |

### Contacts

|   |                |    |   |
|---|----------------|----|---|
| Rated conditional short-circuit current | I <sub>q</sub> | kA | 1 |
|---|----------------|----|---|

## Design verification as per IEC/EN 61439

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification   |                   |    |  |
| Rated operational current for specified heat dissipation   | I <sub>n</sub>    | A  | 6  |
| Heat dissipation per pole, current-dependent   | P <sub>vid</sub>  | W  | 0.11   |
| 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 | 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.                             |

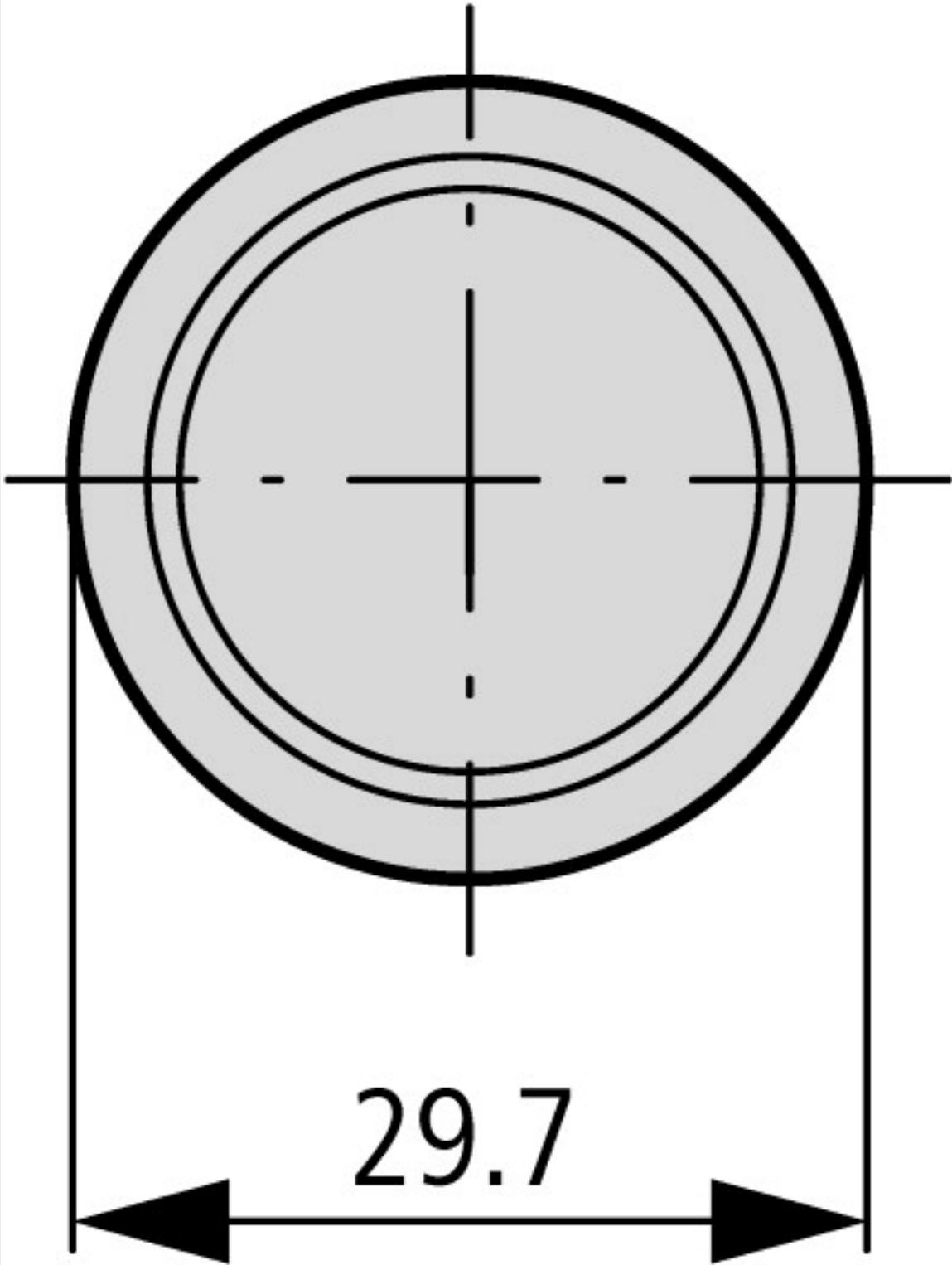
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|--|--|--|--|
| 10.9.3 Impulse withstand voltage                         |  |  | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material |  |  | Is the panel builder's responsibility.   |
| 10.10 Temperature 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.                         |

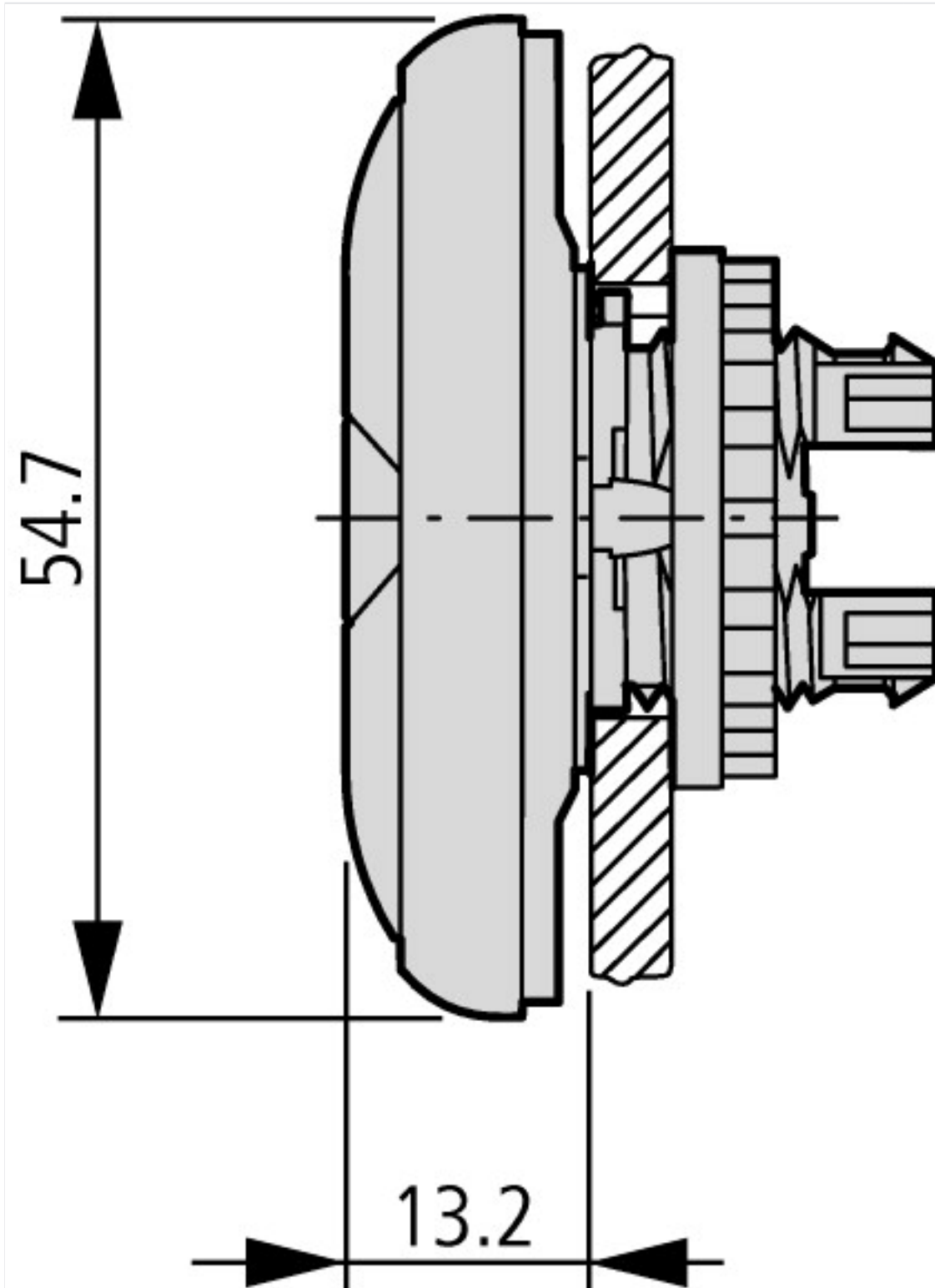
## Technical data ETIM 7.0

|   |  |    |                  |
|---|--|----|------------------|
| Low-voltage industrial components (EG000017) / Push button, complete (EC001028)   |  |    |                  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Push-button actuator, complete unit (ecl@ss10.0.1-27-37-12-28 [AKF046014]) |  |    |                  |
| Number of command positions   |  |    | 2                |
| Type of button  |  |    | Flat             |
| Colour button   |  |    | Red/green        |
| Construction type lens  |  |    | Round            |
| Hole diameter   |  | mm | 22               |
| Width opening   |  | mm | 0                |
| Height opening  |  | mm | 0                |
| Suitable for illumination   |  |    | Yes              |
| Switching function latching   |  |    | No               |
| Spring-return   |  |    | Yes              |
| Supply voltage lamp   |  | V  | 230              |
| Number of contacts as normally open contact   |  |    | 1                |
| Number of contacts as normally closed contact   |  |    | 1                |
| Number of contacts as change-over contact   |  |    | 0                |
| Type of electric connection   |  |    | Screw connection |
| With front ring   |  |    | Yes              |
| Material front ring   |  |    | Plastic          |
| Colour front ring   |  |    | Chrome           |
| Degree of protection (IP)   |  |    | IP66             |
| Degree of protection (NEMA)   |  |    | 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   |





### Additional product information (links)

**IL04716002Z (AWA1160-1745) RMQ-Titan System**

IL04716002Z (AWA1160-1745) RMQ-Titan  
System

[https://es-assets.eaton.com/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04716002Z2020\\_09.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2020_09.pdf)