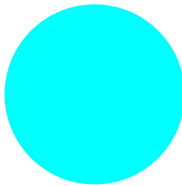




## Illuminated pushbutton actuator, raised, blue, momentary

Part no. **M22-DLH-B**  
Article no. **216973**  
Catalog No. **M22-DLH-BQ**

### Delivery programme

|                                                                             |   |  |                                                                                    |
|-----------------------------------------------------------------------------|---|--|------------------------------------------------------------------------------------|
| Product range                                                               |   |  | RMQ-Titan (drilling dimensions 22.5 mm)                                            |
| Basic function                                                              |   |  | Illuminated pushbutton actuators                                                   |
| Single unit/Complete unit                                                   |   |  | Single unit                                                                        |
| Design                                                                      |   |  | Extended                                                                           |
|                                                                             |   |  | momentary                                                                          |
| <b>Button plate</b>                                                         |   |  |                                                                                    |
| button plate                                                                |   |  | Blue                                                                               |
| Button plate                                                                |   |  |  |
|                                                                             |   |  | Blank                                                                              |
| Degree of Protection                                                        |   |  | IP67, IP69K                                                                        |
| Front ring                                                                  |   |  | Front ring: titanium                                                               |
| Connection to SmartWire-DT                                                  |   |  | Yes, with SWD-RMQ connections                                                      |
| <b>Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1</b> |   |  |                                                                                    |
| Minimum force for positive opening                                          | N |  | 0                                                                                  |
| Front dimensions                                                            |   |  | 29,7                                                                               |

### Technical data

#### General

|                             |              |               |                                                                                          |
|-----------------------------|--------------|---------------|------------------------------------------------------------------------------------------|
| Standards                   |              |               | IEC/EN 60947<br>VDE 0660                                                                 |
| Lifespan, mechanical        | Operations   | $\times 10^6$ | > 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           |
| 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                  |

### Design verification as per IEC/EN 61439

|                                                          |            |    |     |
|----------------------------------------------------------|------------|----|-----|
| Technical data for design verification                   |            |    |     |
| Rated operational current for specified heat dissipation | $I_n$      | A  | 0   |
| Heat dissipation per pole, current-dependent             | $P_{vid}$  | W  | 0   |
| 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                                                                       |  |  | 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. |

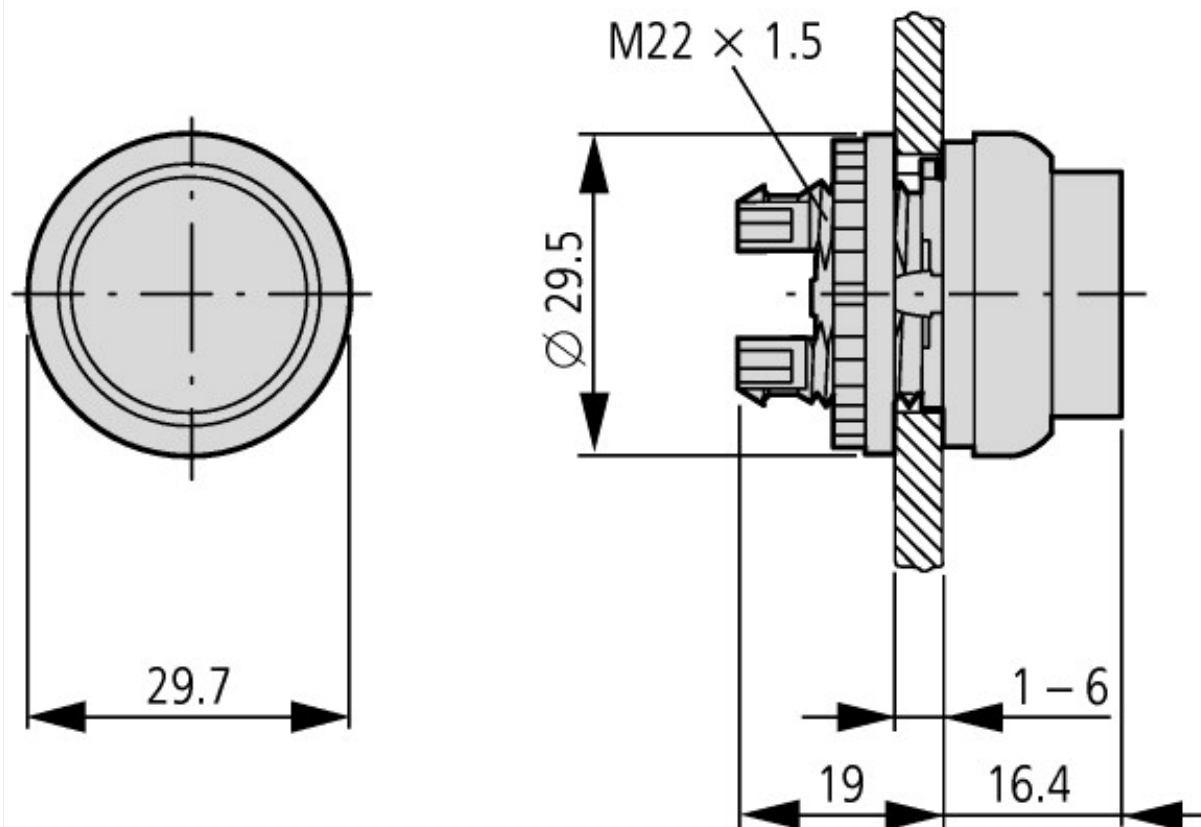
## Technical data ETIM 6.0

|                                                                                                                                                                                                        |  |    |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---------|
| Low-voltage industrial components (EG000017) / Front element for push button (EC000221)                                                                                                                |  |    |         |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ec1@ss8.1-27-37-12-10 [AKF028011]) |  |    |         |
| Colour button                                                                                                                                                                                          |  |    | Blue    |
| Number of command positions                                                                                                                                                                            |  |    | 1       |
| Construction type lens                                                                                                                                                                                 |  |    | Round   |
| Hole diameter                                                                                                                                                                                          |  | mm | 22      |
| Width opening                                                                                                                                                                                          |  | mm | 22      |
| Height meter opening                                                                                                                                                                                   |  | mm | 6       |
| Degree of protection (IP), front side                                                                                                                                                                  |  |    | IP67    |
| Type of button                                                                                                                                                                                         |  |    | High    |
| Suitable for illumination                                                                                                                                                                              |  |    | Yes     |
| With protection cover                                                                                                                                                                                  |  |    | No      |
| Labelled                                                                                                                                                                                               |  |    | No      |
| Switching function latching                                                                                                                                                                            |  |    | No      |
| Spring-return                                                                                                                                                                                          |  |    | Yes     |
| With front ring                                                                                                                                                                                        |  |    | Yes     |
| Material front ring                                                                                                                                                                                    |  |    | Plastic |
| Colour front ring                                                                                                                                                                                      |  |    | Chrome  |

## 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



## Additional product information (links)

IL04716002Z (AWA1160-1745) RMQ-Titan System

IL04716002Z (AWA1160-1745) RMQ-Titan System

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04716002Z2015\\_02.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2015_02.pdf)