# DATASHEET - M22-DRL-X

**Illuminated pushbutton actuator, RMQ-Titan, Flush, maintained, Without button plate, Bezel: titanium**

Powering Business Worldwide™

**Part no.** M22-DRL-X
216954

**EL Number (Norway)** 4355646

## General specifications

| | |
|---|---|
| Product name | Eaton Moeller® series M22 Illuminated pushbutton actuator |
| Part no. | M22-DRL-X |
| EAN | 4015082169541 |
| Product Length/Depth | 30 millimetre |
| Product height | 30 millimetre |
| Product width | 30 millimetre |
| Product weight | 0.012 kilogram |
| Compliances | CE Marked |
| Certifications | CSA Std. C22.2 No. 94-91<br>EN 60947-5<br>UL 508<br>IEC 60947-5<br>CSA Std. C22.2 No. 14-05<br>VDE<br>CSA File No.: 012528<br>CSA-C22.2 No. 14-05<br>VDE 0660<br>CSA Class No.: 3211-03<br>UL Category Control No.: NKCR<br>IEC/EN 60947<br>UL File No.: E29184<br>IEC/EN 60947-5<br>CE<br>CSA<br>CSA-C22.2 No. 94-91<br>UL<br>DNV<br>LR<br>GL |
| Product Tradename | M22 |
| Product Type | Illuminated pushbutton actuator |
| Product Sub Type | None |

## Features & Functions

| | |
|---|---|
| Bezel color | Titanium |
| Bezel material | Plastic |
| Design | Flush<br>Classical |
| Fitted with: | Front ring |
| Functions | Stay-put/spring-return function can be changed on device |

## General information

| | |
|---|---|
| Degree of protection | IP69K<br>NEMA 4X<br>IP67<br>NEMA 12<br>NEMA 13<br>IP66<br>NEMA 3R |
| Degree of protection (front side) | IP67/IP69K<br>NEMA 4X |
| Lifespan, mechanical | 1,000,000 Operations (AC operated) |
| Opening diameter | 22.5 mm |
| Operating frequency | 1800 Operations/h |
| Product category | RMQ-Titan |
| Size | Front diameter: 29.7 mm |
| Suitable for | Illumination |
| Type | Illuminated pushbutton actuator |

## Ambient conditions, mechanical

| | | | |
|---|---|---|---|
| Mounting position | | | As required |
| Shock resistance | | | Mechanical, According to IEC/EN 60068-2-27<br>30 g, Mechanical, According to IEC/EN 60068-2-27, Sinusoidal shock 11 ms |
| **Climatic environmental conditions** | | | |
| Ambient operating temperature - min | | | -25 °C |
| Ambient operating temperature - max | | | 70 °C |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| **Communication** | | | |
| Connection to SmartWire-DT | | | With SWD-RMQ connections<br>Yes |
| **Actuator** | | | |
| Actuating force | | | 5 N |
| Actuator color | | | Without button plate |
| Actuator function | | | Switching function latching<br>Maintained |
| **Contacts** | | | |
| Force for positive opening - min | | | 0 N |
| **Design verification** | | | |
| Equipment heat dissipation, current-dependent Pvid | | | 0 W |
| Heat dissipation capacity Pdiss | | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | | 0 W |
| Rated operational current for specified heat dissipation (In) | | | 0 A |
| Static heat dissipation, non-current-dependent Pvs | | | 0 W |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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 9.0

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 (ecl@ss13-27-37-12-10 [AKF028019])

| | | | |
|---|---|---|---|
| Colour button | | | Without button plate |
| 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 | | | Flat |
| Suitable for illumination | | | Yes |
| With protective cover | | | No |
| Labelled | | | No |
| Switching function latching | | | Yes |
| Spring-return | | | No |
| With front ring | | | Yes |
| Material front ring | | | Plastic |
| Colour front ring | | | Titanium |
| Degree of protection (IP), front side | | | IP67/IP69K |
| Degree of protection (NEMA), front side | | | 4X |