

# Eaton 216933

Catalog Number: 216933

Eaton Moeller® series M22 Illuminated pushbutton actuator, RMQ-Titan, Flush, momentary, Without button plate, Bezel: titanium



General specifications

Product Name	Catalog Number
Eaton Moeller® series M22 Illuminated pushbutton actuator	216933
	EAN
	4015082169336
Model Code	Product Length/Depth
M22-DL-X	30 mm
Product Height	Product Width
30 mm	30 mm
Product Weight	Compliances
0.01 kg	CE Marked

Certifications

CSA Std. C22.2 No. 14-05  
EN 60947-5  
IEC 60947-5  
UL 508  
CSA Std. C22.2 No. 94-91  
VDE  
CSA-C22.2 No. 94-91  
IEC/EN 60947-5  
UL  
CSA File No.: 012528  
IEC/EN 60947  
CSA Class No.: 3211-03  
UL Category Control No.: NKCR  
UL File No.: E29184  
VDE 0660  
CSA  
CE

## Features & Functions

### Bezel color

Titanium

### Bezel material

Plastic

### Design

Flush

Classical

### Fitted with:

Front ring

### Material

Titanium front ring

## General

### Degree of protection

IP66

NEMA 3R

IP69K

NEMA 13

IP67

NEMA 12

NEMA 4X

### Degree of protection (front side)

IP67/IP69K

NEMA 4X

### Lifespan, mechanical

5,000,000 Operations

### Opening diameter

22.5 mm

### Operating frequency

3600 Operations/h

### Product category

RMQ-Titan

### Size

Front dimensions: 22 x 22 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

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, cyclic, to IEC 60068-2-30

Damp heat, constant, to IEC 60068-2-78

## Communication

## Actuator

#### Connection to SmartWire-DT

Yes

With SWD-RMQ connections

#### Actuating force

5 N

#### Actuator color

Without button plate

#### Actuator function

Spring-return

Momentary

### Contacts

#### Force for positive opening - min

0 N

### Design verification

#### Equipment heat dissipation, current-dependent $P_{vid}$

0 W

#### Heat dissipation capacity $P_{diss}$

0 W

#### Heat dissipation per pole, current-dependent $P_{vid}$

0 W

#### Rated operational current for specified heat dissipation ( $I_n$ )

0 A

#### Static heat dissipation, non-current-dependent $P_{vs}$

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.

## Resources

### Catalogs

[eaton-rmq-titan-brochure-br047004en-en-us.pdf](#)

[Flip catalog - Product Range Catalog - Command and indication](#)

[eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf](#)

### Certification reports

[0000SPC-179](#)

[0000SPC-183](#)

### Declarations of conformity

[DA-DC-00004157.pdf](#)

[DA-DC-00004135.pdf](#)

### Drawings

[eaton-operating-pushbutton-m22-dimensions-004.eps](#)

[116X214](#)

[116X103](#)

[eaton-operating-actuation-m22-dimensions-002.eps](#)

### Drawings

[eaton-general-approval-m22-symbol.eps](#)

[eaton-operating-samrtwire-m22-3d-drawing.eps](#)

[eaton-general-m22-symbol.eps](#)

[0000SPC-180](#)

[eaton-general-m22-standards.eps](#)

[116I256](#)

### eCAD model

[ETN.M22-DL-X](#)

[ETN.216933.edz](#)

### Installation instructions

[eaton-operating-devices-rmq-titan-m22-instruction-leaflet-il047018zu.pdf](#)

[IL04716002Z](#)

### Installation videos

[RMQ Flat Design](#)

### mCAD model

[eaton-cadenas-side\\_view-drucktaste\\_ohne\\_tastenplatte\\_side.pra](#)

[eaton-cadenas-path-temp-drucktaste\\_ohne\\_tastenplatte.3db](#)

[DA-CS-drucktaste\\_ohne\\_tastenplatte](#)

[DA-CD-drucktaste\\_ohne\\_tastenplatte](#)

[eaton-cadenas-front\\_view-drucktaste\\_ohne\\_tastenplatte\\_front.pra](#)

## Multimedia

[MCI Multicolor Light Indicator M22 with SmartWire-DT](#)

[easyE4 SmartWire-DT module with Remote Touch Display and RMQ  
multi color indicator](#)

[RMQ small E-Stop emergency-stop button](#)

[MCI MultiColor Light Indicator RMQ compact solution](#)

## Sales notes

[eaton-rmq-mci-multi-color-light-indicator-flyer-fl047005en-en-us.pdf](#)

[eaton-rmq-flat-enclosure-flyer-fl047003en-en-us.pdf](#)

[eaton-control circuit-devices rmq-titan-fl144090en-en-us.pdf](#)

[eaton-rmq-small-e-stop-flyer-fl047006en-en-us.pdf](#)

## System overview

[Pilot devices - selection aid](#)



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