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Powering Business Worldwide

M22-LEDC-R - LED element, red, base fixing, 12-30VAC/DC



216561 M22-LEDC-R

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## 216561 M22-LEDC-R

LED element, red, base fixing, 12-30VAC/DC

Alternate Catalog No.

M22-LEDC-RQ

EL-Nummer (Norway)

4355372

LED element, Fixing: Base fixing, Connection technique: Screw terminals, Rated operational voltage:  $U_e = 12 - 30 \text{ V AC/DC, 50/60 Hz V}$ , Rated operational current:  $I_e = 8 - 15 \text{ mA}$ , Power consumption:  $P_{max} = 0.26 \text{ W}$ , at 24 V, Degree of Protection: IP20, Connection to SmartWire-DT: no, Standards: IEC 60947-5-1

- Delivery program
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- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

### Delivery program

Basic function accessories  
LED elements  
Connection technique  
Screw terminals  
Fixing  
Base fixing  
Rated operational voltage [ $U_e$ ]  
12 - 30 V AC/DC, 50/60 Hz V  
Rated operational current [ $I_e$ ]  
8 - 15 mA  
Power consumption [ $P_{max}$ ]  
0.26 W  
Lifespan to EN 60064 at  $t_a = +25 \text{ °C}$  [ $t_{mean}$  (AC)]  
100000 h  
Degree of Protection  
IP20  
at 24 V  
Colour  
Red



Connection to SmartWire-DT  
no  
Approval



Connection technique  
Screw terminals

#### Notes

For indicator lights, illuminated pushbutton actuators, and illuminated selector switch actuators, the following applies:

M22...-R only in combination with M22-LED...-R

M22...-G only in combination with M22-LED...-G

M22...-W only in combination with M22-LED...-W

M22...-Y only in combination with M22-LED...-W

M22...-B in combination with M22-LED...-W or M22-LED...-B

## Technical data

General

Standards

IEC 60947-5-1

Operating torque (screw terminals)

□ 0.8 Nm

Degree of Protection

IP20

Climatic proofing

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

Damp heat, cyclic, to IEC 60068-2-30

Ambient temperatureOpen

-25 - +70 °C

Ambient temperatureStorage

- 40 - + 80 °C

Mounting position

As required

Mechanical shock resistance according to IEC 60068-2-27

Shock duration 11 ms, half-sinusoidal

> 30 g

Mechanical shock resistance

30

Shock duration 11 ms

Sinusoidal

according to IEC 60068-2-27 g

Terminal capacitiesSolid

0.75 - 2.5 mm<sup>2</sup>

Terminal capacitiesStranded

0.5 - 2.5 mm<sup>2</sup>

Contacts

Rated impulse withstand voltage [ $U_{imp}$ ]

6000 V AC

Rated insulation voltage [ $U_i$ ]

500 V

Overvoltage category/pollution degree

III/3

Indoor and protected outdoor installation

## Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [ $I_n$ ]

0 A

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

0 W

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

0 W

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

0.45 W

Heat dissipation capacity [ $P_{diss}$ ]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

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 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 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 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts 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 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 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) / Lamp holder block for control circuit devices (EC0000204)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm

device / Bulb socket block for command and alarm devices (ecl@ss10.0.1-27-37-12-09 [AKF027014])

Transformer integrated

No

With integrated voltage decreasing resistor

No

With light source  
Yes  
With integrated diode  
Yes  
Lamp holder  
None  
Rated voltage Ue at AC 50 Hz  
0 - 0 V  
Rated voltage Ue at AC 60 Hz  
0 - 0 V  
Rated voltage Ue at DC  
30 - 30 V  
Voltage type for actuating  
AC/DC  
Lamp type  
LED  
Connection type auxiliary circuit  
Screw connection  
Colour lamp  
Red  
Type of fastening  
Floor fastening

## 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: -

## Dimensions

Pushbutton with M22-(C)K...  
Pushbutton with M22-(C) LED... + M22-XLED...

## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

## DWG files

- [DA-CD-led\\_element\\_schraube\\_boden](#)  
File  
(Web)

## edz files

- [DA-CE-ETN.M22-LEDC-R](#)  
File  
(Web)

## Step files

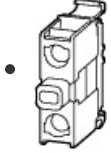
- [DA-CS-led\\_element\\_schraube\\_boden](#)  
File  
(Web)

## Symbol



1160061  
Graphic  
Button plate, red

## 3D drawing



1161248  
Line drawing  
LED element

## Product photo



1160PIC-1641  
Photo

## Standards



000Z330  
Logo  
LED logo



116Z024  
Logo  
LED logo

## Instruction Leaflet

- [RMQ-Titan M22 \(IL047018ZU\)](#)  
(PDF, 07/2021, Int)
- [RMQ-Titan System \(IL04716002Z\)](#)  
Asset  
former AWA1160-1745, IL04716001E  
(PDF, 09/2020, multilingual)

## Declaration of Conformity

### EU

- [RMQ Titan \(Operating and signalling devices\) M22.../M30.../C22.../C30...](#) (DA-DC-00003657)  
Asset  
(PDF)

UK

- [RMQ Titan \(Operating and signalling devices\) M22.../M30.../C22.../C30... \(DA-DC-00003960\)](#)  
Asset  
(PDF)

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