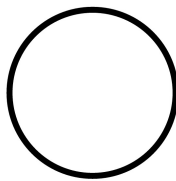




LED element, white, front mount, cage clamp

**Part no.** M22-CLED-W  
**Catalog No.** 216569  
**Alternate Catalog No.** M22-CLED-WQ  
**EL-Nummer (Norway)** 4355772

## Delivery program

|                                                                                                                           |                 |    |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------|-----------------|----|--------------------------------------------------------------------------------------|
| Basic function accessories                                                                                                |                 |    | LED elements                                                                         |
| Description                                                                                                               |                 |    | Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH/Minden, Germany     |
| Connection technique                                                                                                      |                 |    | Cage Clamp                                                                           |
| Fixing                                                                                                                    |                 |    | Front fixing                                                                         |
| Rated operational voltage                                                                                                 | $U_e$           | V  | 12 - 30 V AC/DC, 50/60 Hz                                                            |
| <b>Rated operational current</b>                                                                                          | $I_e$           | mA | 8 - 15                                                                               |
| Power consumption                                                                                                         | $P_{max.}$      | W  | 0.26                                                                                 |
| Lifespan to EN 60064 at $t_a = +25\text{ °C}$                                                                             | $t_{mean} (AC)$ | h  | 100000                                                                               |
| Degree of Protection                                                                                                      |                 |    | IP20                                                                                 |
|                                                                                                                           |                 |    | at 24 V                                                                              |
| <b>Colour</b>                                                                                                             |                 |    | White                                                                                |
|                                                                                                                           |                 |    |   |
| Connection to SmartWire-DT                                                                                                |                 |    | no                                                                                   |
| Approval                                                                                                                  |                 |    |  |
| Connection technique                                                                                                      |                 |    | Cage Clamp                                                                           |
| <b>Notes</b>                                                                                                              |                 |    |                                                                                      |
| 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) |  | Nm | $\leq 0.8$                                                                     |
| Degree of Protection               |  |    | IP20                                                                           |
| 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                                                                      |
| Storage                            |  | °C | -40 - +80                                                                      |

|                                                                                                  |                 |                                                                         |
|--------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------|
| Mounting position                                                                                |                 | As required                                                             |
| Mechanical shock resistance according to IEC 60068-2-27<br>Shock duration 11 ms, half-sinusoidal | g               | > 30                                                                    |
| Mechanical shock resistance                                                                      | g               | 30<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27 |
| Terminal capacities                                                                              | mm <sup>2</sup> |                                                                         |
| Solid                                                                                            | mm <sup>2</sup> | 0.75 - 2.5                                                              |
| Stranded                                                                                         | mm <sup>2</sup> | 0.5 - 2.5                                                               |

**Contacts**

|                                           |                  |      |       |
|-------------------------------------------|------------------|------|-------|
| Rated impulse withstand voltage           | U <sub>imp</sub> | V AC | 6000  |
| Rated insulation voltage                  | U <sub>i</sub>   | V    | 500   |
| 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 <sub>n</sub>    | A  | 0                                                                                                                                |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 0.45                                                                                                                             |
| 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                                                                       |                   |    | Meets the product standard's requirements.                                                                                       |
| 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                                                                                                 |                   |    | 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 (EC000204)

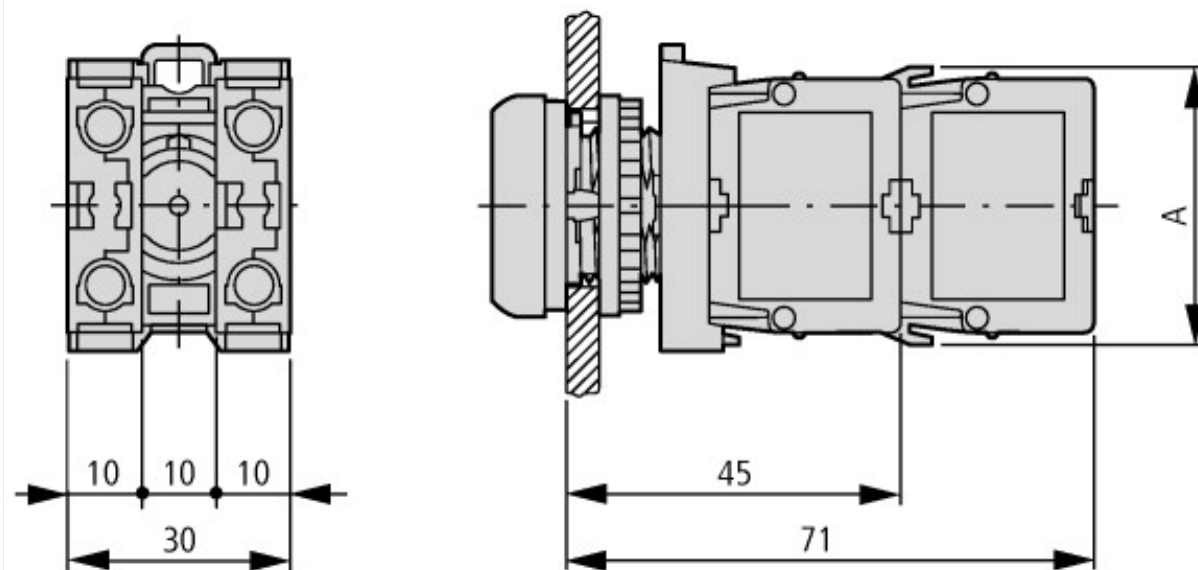
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Bulb socket block for command and alarm devices (ec@ss10.0.1-27-37-12-09 [AKF027014])

|                                             |   |                         |
|---------------------------------------------|---|-------------------------|
| Transformer integrated                      |   | No                      |
| With integrated voltage decreasing resistor |   | No                      |
| With light source                           |   | Yes                     |
| With integrated diode                       |   | Yes                     |
| Lamp holder                                 |   | None                    |
| Rated voltage U <sub>e</sub> at AC 50 Hz    | V | 12 - 30                 |
| Rated voltage U <sub>e</sub> at AC 60 Hz    | V | 12 - 30                 |
| Rated voltage U <sub>e</sub> at DC          | V | 12 - 30                 |
| Voltage type for actuating                  |   | AC/DC                   |
| Lamp type                                   |   | LED                     |
| Connection type auxiliary circuit           |   | Spring clamp connection |
| Colour lamp                                 |   | White                   |
| Type of fastening                           |   | Front 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



A = 39

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



# SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product suppliers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

# [www.scatts.co.uk](http://www.scatts.co.uk)