# **DATASHEET - Q18D-GE**



# Pushbutton, yellow, momentary

Part no. Q18D-GE Catalog No. 086417 Alternate Catalog Q18D-GE

No.

**EL-Nummer** 4356277

(Norway)



### **Delivery program**

| Delivery program           |   |    |                      |
|----------------------------|---|----|----------------------|
| Product range              |   |    | RMQ16                |
| Basic function             |   |    | Pushbutton actuators |
| Mounting hole diameter     | Ø | mm | 16                   |
| Single unit/Complete unit  |   |    | Single unit          |
| Design                     |   |    | Flat                 |
|                            |   |    | momentary            |
| Button plate               |   |    |                      |
| button plate               |   |    | yellow               |
| Button plate               |   |    |                      |
|                            |   |    | Blank                |
| Degree of Protection       |   |    | IP65                 |
| Front ring                 |   |    | without bezel        |
| Connection to SmartWire-DT |   |    | no                   |

### **Technical data**

#### General

| General                            |              |                   |  |
|------------------------------------|--------------|-------------------|--|
| Standards                          |              |                   | IEC/EN 60947, VDE 0660   |
| Lifespan, mechanical               | Operations   | x 10 <sup>6</sup> | >3   |
| Operating frequency                | Operations/h |                   | ≦ 3600   |
| Actuating force                    |              | n                 | ≦ 4  |
| Degree of protection, IEC/EN 60529 |              |                   | IP65   |
| Climatic proofing                  |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature                |              |                   |  |
| Open                               |              | °C                | -25 - +60  |
| Enclosed                           |              | °C                | - 25 - 40  |
| Mounting position                  |              |                   | As required  |
| Mechanical shock resistance        |              | g                 | > 40<br>according to IEC 60068-2-27<br>Shock duration 11 ms<br>Sinusoidal      |

# **Design verification as per IEC/EN 61439**

| Rated operational current for specified heat dissipation  Rated operational current for specified heat dissipation  Heat dissipation per pole, current-dependent  Equipment heat dissipation, current-dependent  Static heat dissipation, non-current-dependent  P <sub>vs</sub> |       |    |     |
|--|-------|----|-----|
| Heat dissipation per pole, current-dependent P <sub>vi</sub> Equipment heat dissipation, current-dependent P <sub>vi</sub> Static heat dissipation, non-current-dependent P <sub>vs</sub>  |       |    |     |
| Equipment heat dissipation, current-dependent P <sub>vi</sub> Static heat dissipation, non-current-dependent P <sub>vs</sub>   | •     | Α  | 0   |
| Static heat dissipation, non-current-dependent P <sub>vs</sub>   | vid \ | W  | 0   |
|  | vid \ | W  | 0   |
|  | vs \  | W  | 0   |
| Heat dissipation capacity P <sub>di</sub>  | diss  | W  | 0   |
| Operating ambient temperature min.   | c     | °C | -25 |
| Operating ambient temperature max.   | c     | °C | 60  |
| C/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.   |
| 0.5 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.  |
| 0.11 Short-circuit rating  | Is the panel builder's responsibility. The specifications for the switchgear must observed.              |
| 10.12 Electromagnetic compatibility  | Is the panel builder's responsibility. The specifications for the switchgear mus 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) / Front element for push button (EC000221)

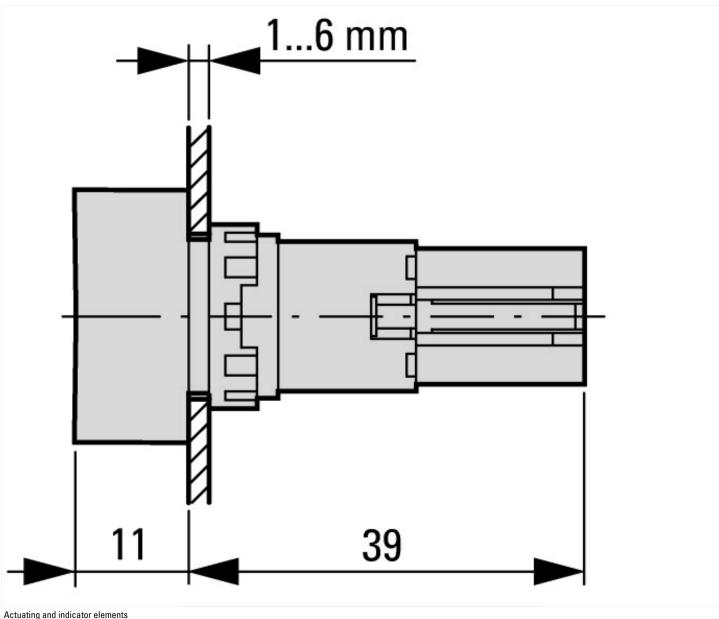
Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for push-button actuators (ecl@ss10.0.1-27-37-12-10 [AKF028014])

| Colour buttonImage: recommend positionsYellowNumber of command positions13 quareConstruction type lensmm6Hole diametermm0Width openingmm0Height openingmm0Type of buttonpm1Suitable for illuminationmm1With protective covermmNoLabelledNoNoSwitching function latchingmmNoSpring-returnmmYesWith front ringYesMaterial front ringmmPlasticColour front ringmmBlackDegree of protection (NEMA), front sidemm1Degree of protection (NEMA), front sidemm1Degree of protection (NEMA), front sidemm1Degree of protection (NEMA), front sidemm1Type of protection (NEMA), front sidemm1  |   |    |         |
|--|---|----|---------|
| Construction type lens  Hole diameter  Hole diameter  Width opening  Height opening  Type of button  Suitable for illumination  With protective cover  Labelled  Switching function latching  Spring-return  With front ring  Material front ring  Material front ring  Colour front ring  Degree of protection (IP), front side   | Colour button                           |    | Yellow  |
| Hole diameter  Width opening  Height opening  Type of button  Suitable for illumination  With protective cover  Labelled  Switching function latching  Spring-return  With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side   | Number of command positions             |    | 1       |
| Width openingmm0Height openingmm0Type of buttonFlatSuitable for illuminationNoWith protective coverNoLabelledNoSwitching function latchingNoSpring-returnNoWith front ringYesMaterial front ringYesColour front ringPlasticDegree of protection (IP), front sideHes  | Construction type lens                  |    | Square  |
| Height opening mm 0 Type of button Flat Suitable for illumination No With protective cover No Labelled No Switching function latching No Spring-return Yes With front ring Yes Colour front ring Plastic Colour front ring Black Degree of protection (IP), front side   | Hole diameter                           | mm | 16      |
| Type of button Suitable for illumination With protective cover Labelled Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  I Suitable for illumination I No Something function latching I Suitable for illumination I No Switching function latching I Suitable I No Switching function latching I Ves I Suitable I Plastic I Plastic I Plo5 I Plo | Width opening                           | mm | 0       |
| Suitable for illumination  Suitable for illumination  With protective cover  Labelled  Switching function latching  Spring-return  With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side  No  No  No  No  Yes  Yes  Plastic  Black  IP65  | Height opening                          | mm | 0       |
| With protective cover Labelled Switching function latching Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  No   | Type of button                          |    | Flat    |
| Labelled Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  No No Yes Yes Yes Yes Plastic Black Degree of protection (IP), front side  No  | Suitable for illumination               |    | No      |
| Switching function latching Spring-return With front ring Material front ring Colour front ring Degree of protection (IP), front side  No No Yes Yes  Yes  Plastic  Black  IP65  | With protective cover                   |    | No      |
| Spring-return  Yes  With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side  Yes  Plastic  Black  IP65  | Labelled                                |    | No      |
| With front ring  Material front ring  Colour front ring  Degree of protection (IP), front side  Yes  Plastic  Black  IP65  | Switching function latching             |    | No      |
| Material front ring Plastic Colour front ring Black Degree of protection (IP), front side IP65   | Spring-return                           |    | Yes     |
| Colour front ring Black Degree of protection (IP), front side IP65   | With front ring                         |    | Yes     |
| Degree of protection (IP), front side  | Material front ring                     |    | Plastic |
|  | Colour front ring                       |    | Black   |
| Degree of protection (NEMA), front side 1  | Degree of protection (IP), front side   |    | IP65    |
|  | Degree of protection (NEMA), front side |    | 1       |

# Approvals

| Product Standards           | IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking |
|-----------------------------|---|
| UL File No.                 | E29184  |
| UL Category Control No.     | NKCR  |
| CSA File No.                | 46552   |
| CSA Class No.               | 3211-03   |
| North America Certification | UL listed, CSA certified                                |

#### **Dimensions**



Actuating and indicator elements Square style

### **Additional product information (links)**

IL04716016Z (AWA1160-1429) Mounting of components

IL04716016Z (AWA1160-1429) Mounting of components

https://es-assets.eaton.com/DOCUMENTATION/AWA\_INSTRUCTIONS/IL04716016Z2018\_05.pdf