# **DATASHEET - M22-WS-MS2**



Key-operated actuator, momentary, 2 positions, MS2, Key withdrawable: 0, Bezel: titanium



Part no. M22-WS-MS2
Catalog No. 111790
Alternate Catalog M22-WS-MS20

No

**Delivery program** 

| Product range                        |   |    | RMQ-Titan   |
|--------------------------------------|---|----|---|
| Basic function                       |   |    | Key-operated buttons  |
| Mounting hole diameter               | Ø | mm | 22.5  |
| Single unit/Complete unit            |   |    | Single unit   |
| Design                               |   |    | Key operated  |
|                                      |   |    | momentary   |
| Function:                            |   |    |   |
|                                      |   |    | ♪ <sub>40°</sub>  |
|                                      |   |    | Not suitable for master key systems   |
|                                      |   |    | 2 positions   |
| Lock mechanism                       |   |    | MS2   |
| Key withdrawable in position         |   |    |   |
|                                      |   |    | 0   |
| Degree of Protection                 |   |    | IP66  |
| Front ring                           |   |    | Bezel: titanium   |
| Connection to SmartWire-DT           |   |    | yes<br>with SWD-RMQ connections   |
| Instructions                         |   |    | Stay-put/spring-return function, can be changed with coding parts M22-XC-Y Key withdraw convertible with coding adapters M22-XC |
| Information about equipment supplied |   |    | With 1 key  |

# **Technical data**

General

| General                     |              |                   |  |
|-----------------------------|--------------|-------------------|--|
| Standards                   |              |                   | IEC/EN 60947<br>VDE 0660   |
| Lifespan, mechanical        | Operations   | x 10 <sup>6</sup> | > 0.1  |
| Operating frequency         | Operations/h |                   | ≦ 100  |
| Operating torque            |              | Nm                | ≦ 0.5  |
| Climatic proofing           |              |                   | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| Degree of Protection        |              |                   | IP66   |
| Ambient temperature         |              |                   |  |
| Open                        |              | °C                | -25 - +70  |
| Mounting position           |              |                   | As required  |
| Mechanical shock resistance |              | g                 | 30<br>Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27        |
| shipping classification     |              |                   | DNV<br>GL<br>LR  |
|                             |              |                   | 2 2 Iloyd's  |





| chnical data for design verification  |                   |    |  |
|---|-------------------|----|--|
| Rated operational current for specified heat dissipation  | In                | Α  | 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  | $P_{vs}$          | W  | 0  |
| Heat dissipation capacity   | P <sub>diss</sub> | W  | 0  |
| Operating ambient temperature min.  |                   | °C | -25  |
| Operating ambient temperature max.  |                   | °C | 70   |
| 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. |

Meets the product standard's requirements.

Is the panel builder's responsibility.

Not applicable.

observed.

leaflet (IL) is observed.

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

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Is the panel builder's responsibility. The specifications for the switchgear must be

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The device meets the requirements, provided the information in the instruction

#### **Technical data ETIM 7.0**

10.12 Electromagnetic compatibility

10.13 Mechanical function

10.4 Clearances and creepage distances

10.6 Incorporation of switching devices and components

10.9.4 Testing of enclosures made of insulating material

10.7 Internal electrical circuits and connections

10.9.2 Power-frequency electric strength

10.8 Connections for external conductors

10.9.3 Impulse withstand voltage

10.9 Insulation properties

10.10 Temperature rise10.11 Short-circuit rating

10.5 Protection against electric shock

| L | ow-voltage industrial components (EG000017) / Front element for selector switch (EC000222) |  |
|---|--|--|
|---|--|--|

Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss10.0.1-27-37-12-13 [AKF031014])

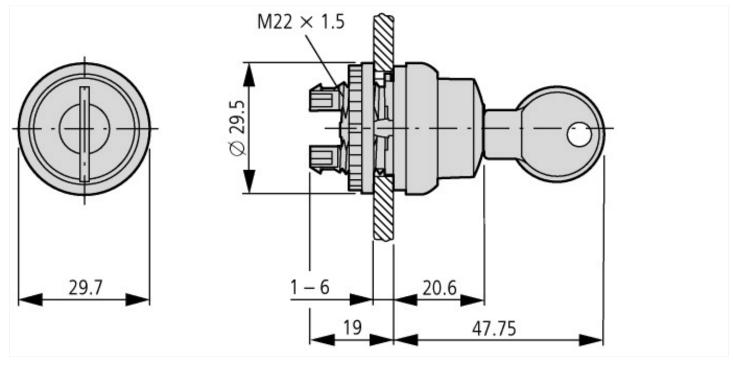
| AKF031014])                           |    |         |
|---------------------------------------|----|---------|
| Number of switch positions            |    | 2       |
| Type of control element               |    | Key     |
| Suitable for illumination             |    | No      |
| Colour control element                |    | Black   |
| Colour indicator light cap            |    | Other   |
| Construction type lens                |    | Round   |
| Hole diameter                         | mm | 22.5    |
| Nidth opening                         | mm | 0       |
| Height opening                        | mm | 0       |
| Switching function latching           |    | No      |
| Spring-return                         |    | Yes     |
| Vith front ring                       |    | Yes     |
| Material front ring                   |    | Plastic |
| Colour front ring                     |    | Other   |
| Degree of protection (IP), front side |    | IP66    |

| Degree of protection (NEMA) |  | 4X |
|-----------------------------|--|----|
|-----------------------------|--|----|

# **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 3R, 4X, 12, 13   |

# **Dimensions**



# **Additional product information (links)**

f1=1454&f2=1179;Labeleditor

http://applications.eaton.eu/sdlc?LX=11&amp