# Key-operated actuator, 2 positions, maintained

**Part no.** M22-WRS-MS2
**Article no.** 111778
**Catalog No.** M22-WRS-MS2Q

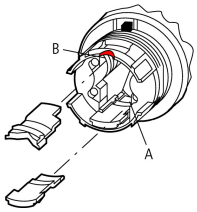
Powering Business Worldwide

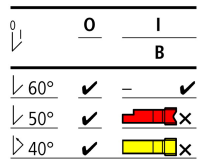
## Delivery programme

| | | | |
|---|---|---|---|
| Product range | | | RMQ-Titan (drilling dimensions 22.5 mm) |
| Basic function | | | Key-operated buttons |
| Single unit/Complete unit | | | Single unit |
| Function | | | maintained |
| Front ring | | | Bezel: Silver |
| Description | | | 2 positions<br>Lock mechanism MS2<br>Not suitable for master key systems<br>With 1 key<br>Stay-put/spring-return function, can be changed with coding parts M22-XC-Y<br>Key withdraw convertible with coding adapters M22-XC-... |
| Function | | | maintained<br>  <br>right: 60° |
| Connection to SmartWire-DT | | | yes |
| **Key withdrawable in position** | | | |
| | | | 0 |
| | | | I |
| Information about equipment supplied | | | With 1 key |
| Design | | | Key operated |

**Notes** 7777777

Notes **For conversion between stay-put and spring-return functions and for changing the key withdrawability for selector switch actuators with 2 positions**

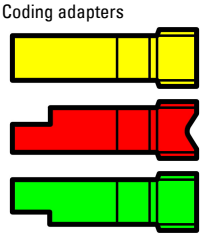



✔ = Key withdrawable

✘ = Key not withdrawable

Coding adapters



M22-XC-Y, →#216407

M22-XC-R, →#216406

**Notes**

Bezel gold-plated →#274150

## Technical data

### General

| | | | |
|---|---|---|---|
| Standards | | | IEC/EN 60947<br>VDE 0660 |
| Lifespan, mechanical | Operations | x $10^6$ | > 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 |
| Ambient temperature | | °C | |
| Open | | °C | -25 - +70 |
| Mounting position | | | As required |
| Mechanical shock resistance | | g | 30 |

| | | | |
|---|---|---|---|
| | | | Shock duration 11 ms<br>Sinusoidal<br>according to IEC 60068-2-27 |

## Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 0 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 0 |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0 |
| Heat dissipation capacity | $P_{diss}$ | 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 | | | 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 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. |
| 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 6.0

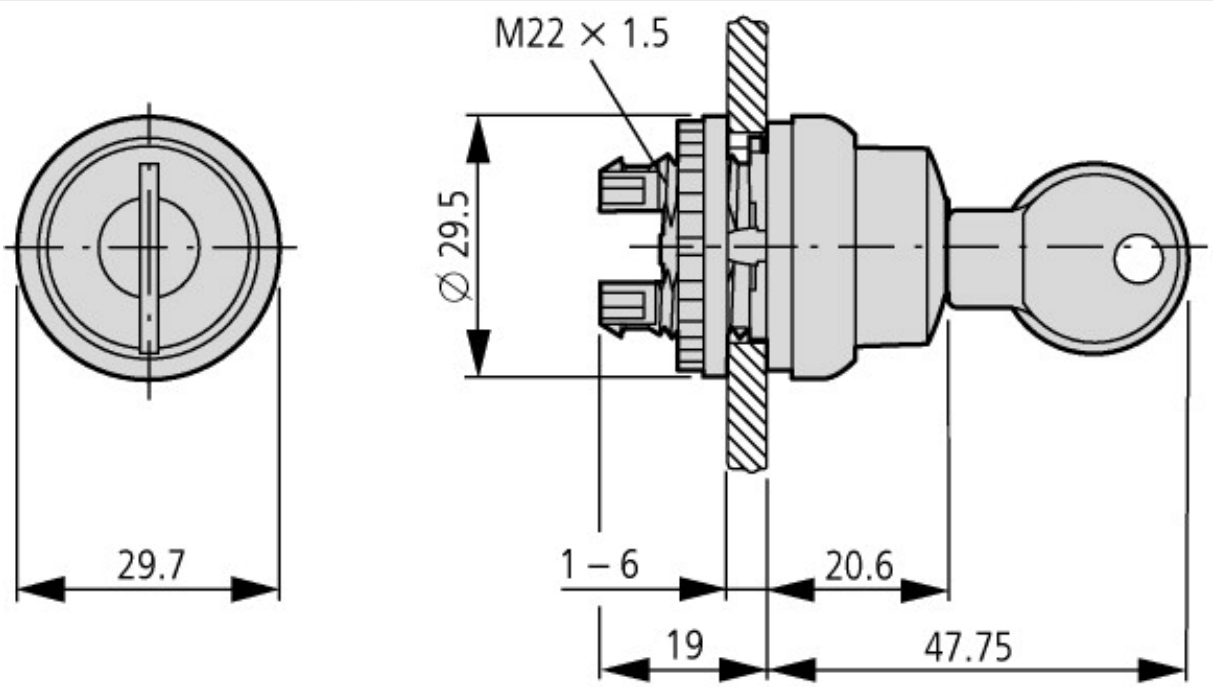
| | | | |
|---|---|---|---|
| Low-voltage industrial components (EG000017) / Front element for selector switch (EC000222) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Command and alarm device / Front element for selector switches (ecl@ss8.1-27-37-12-13 [AKF031011]) | | | |
| Number of switch positions | | | 2 |
| Type of control element | | | Key |
| Suitable for illumination | | | No |
| Colour control element | | | Black |
| Colour indicator light cap | | | Not applicable |
| Construction type lens | | | Round |
| Hole diameter | | mm | 22.5 |
| Width opening | | mm | 0 |
| Height meter opening | | mm | 0 |
| Switching function latching | | | Yes |
| Spring-return | | | No |
| Degree of protection (IP), front side | | | IP66 |

| | | |
|---|---|---|
| With front ring | | Yes |
| Material front ring | | Plastic |
| Colour front ring | | - |

## 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)

| **IL04716002Z (AWA1160-1745) RMQ-Titan System** | |
|---|---|
| IL04716002Z (AWA1160-1745) RMQ-Titan System | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716002Z2015_02.pdf |
| Labeleditor | http://downloadcenter.moeller.net/de/software.f6023a63-5acb-42c7-a51c-ccf99091cace |