

RAMO 22 T, mushroom pushbutton, M12, collar round, latching, 2 NC



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Vehicle construction
- > Chemical industry
- Industrial robots

special features

- Key stroke with tactile feedback or mushroom pushbutton with latching actuator
- Based on the RAFI MICON 5 short-travel keyswitch with gold contacts, which has proven itself millions of times over
- > Single-part, closed housing
- Unique series with easiest Plug&Play connection
- Completely tailored design fits the RAFIX range of control components
- Installation size: 22.3 mm
- > Plug & Play connection M12
- Custom print options, including FLEXLAB bezels
- > Can be illuminated in many colors
- > Redundant version with 2 NO contacts
- > Pushbutton with black mushroom head



description

Because it features the RAFI MICON 5 tactile switch, RAMO 22 T offers tactile feedback with a noticeable click. Due to the IP 66/ IP69K degree of protection, it is recommended in particular for plant engineering and construction. RAMO 22 T requires a mounting hole diameter of 22.3 mm.

As a further product variant, the RAMO 22 T mushroom pushbutton offers a latching pushbutton option for every application. It is characterised by form and function as for an emergency stop, but is only declared as a pushbutton. Various contact functions are possible.

Additional information according to UL certificate:

- > Only approved for Class 2 Power Source or Limited Voltage / Limited Current.
- > Installation only by trained specialist personnel.
- Type 4x Indoor only with cable "Cat. No. 7000-08061-0210100 PUR 4x0.25mm² with M8 connector, rated max. 30VAC/DC 4A, manufactured by Murrelektronik GmbH" and "Cat. No. 7000-12221-0340100 PUR 4x0.34mm² with M12 connector, rated max. 30VAC/DC 4A, manufactured by Murrelektronik GmbH"
- > For Use on a Flat Surface of a Type 1 or 4x indoor only Enclosure.

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technical data



| > general | |
|---|--------------------|
| Potential free | yes |
| Legending | Arrows |
| Color | black |
| Color of mushroom | black |
| Legending color | black |
| Collar color | black |
| Collar shape | round |
| Operating temperature, min. | -40 °C |
| Operating temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C |
| Storage temperature, max. | 90 °C |
| illuminated | No |
| Packaging | Box |
| Packaging unit | 2 pcs. |
| net weight | 27.8 g |
| Operating life | 50,000 cycles |
| B10 | 65,000 cycles |
| B10d | 84,500 cycles |
| Degree of protection, front side, | IP66 |
| according to DIN EN 60529 | |
| Degree of protection, rear side, | IP65 |
| according to DIN EN 60529 | IP67 |
| UL Enclosure Type Rating front side | type 4X indoor |
| Environment resistance | IEC 60068-2-14 |
| | IEC 60068-2-30 |
| | IEC 60068-2-33 |
| | IEC 60068-2-78 |
| Salt-spray resistance according to standard | IEC 60068-2-11 |
| Impact resistance IK | 07 side |
| | 08 frontal |
| MOQ order | 10 pcs. |
| Pollution degree acc. to DIN EN 61010-1 | Pollution degree 2 |
| RoHS compliant | Yes |
| REACH compliant | Yes |
| > mounting diameters | |
| Outside dimension, length | 30 mm |
| Outside dimension, width | 30 mm |
| Outside dimension, height | 69.7 mm |
| Mounting hole | 22.3 mm |
| Mounting depth | 30.1 mm |
| Installation height | |
| | 39.6 mm |

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direct links

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> mechanical data

| • | | |
|---|-----------------------------------|--------------------------------------|
| | Actuation function | latching |
| | Resistance to force on the side | 300 N |
| | Contact function | 2 NC |
| | Contact material | Gold |
| | Resetting | by rotating |
| | Fixing | Threaded ring |
| | Threaded ring torque, max. | 1.2 Nm |
| | Terminal on the rear | M12 4-pin A-coded |
| | PIN 1 | Normally closed contact 1 |
| | PIN 2 | Normally closed contact 1 |
| | PIN 3 | Normally closed contact 2 |
| | PIN 4 | Normally closed contact 2 |
| > | electrical data | |
| | Rated insulation voltage | 250 V |
| | Rated surge voltage | 2,500 V |
| | Rated operating voltage | 35 V (AC-15) |
| | | 35 V (DC-13) |
| | Rated voltage, min. | 1 V |
| | Rated voltage, max. | 35 V |
| | Voltage type | DC |
| | Rated operating current | 0.1 A |
| | Rated operating voltage | 1-35 V |
| | Rated current, min. | 0.001 A |
| | Rated current, max. | 0.1 A |
| | Power loss | 0.00080 W |
| | Overvoltage category | 2 |
| | Kind of short circuit protective | fuse 250 V / 0,1 A / 1,5 kA gG quick |
| | device | |
| | Conditional short circuit current | 1,000 A |
| | | |

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drawings

Dimensioned drawing



Mounting hole drawing



acc. to IEC 60947-5-1

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Schematic diagram



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