

RAMO 22 T, M12, round collar, momentary contact function, frontring metallic silver, 1 NO, bezel red



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
- > 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
- > 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

Bezel color

> general

Potential free yes Color black

Property of bezel / mushroom translucent Collar color black

Front ring color metallic silver

red

12.6 g

Luminous element color white Collar shape round Operating temperature, min. -40 °C Operating temperature, max. 85 °C Storage temperature, min. -40 °C Storage temperature, max. 85 °C illuminated Yes Luminous elements LED Packaging Box Packaging unit 10 pcs. net weight

Operating life 500,000 cycles 650,000 cycles

Degree of protection, front side, **IP66** according to DIN EN 60529 IP67 **IP69** IP66

Degree of protection, rear side, according to DIN EN 60529 IP67

UL Enclosure Type Rating front type 4X indoor

side

Environment resistance IEC 60068-2-14

> IEC 60068-2-30 IEC 60068-2-33 IEC 60068-2-78 IEC 60068-2-11

Salt-spray resistance according to

standard

05 shock resistance 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 40 mm Outside dimension, width 29.8 mm Outside dimension, height 29.8 mm Mounting hole 22.3 mm Mounting depth 30.2 mm Installation height 9.8 mm

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own

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> RAFI eCatalog

direct links

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Grid, min. 30 mm

> mechanical data

Actuation function momentary contact function

Operating force, max. 12 N Operating force, min. 5 N Operating travel, max. 1 mm Resistance to force on the side 300 N 1 NO Contact function Contact material Gold

Fixing Threaded ring

Threaded ring torque, max. 1.2 Nm

Terminal on the rear M12 4-pin A-coded PIN 1 Normally open contact 1

PIN 2 LED + PIN 3 **GND**

PIN 4 Normally open contact 1

20 V

> electrical data

Rated insulation voltage 250 V Rated surge voltage 800 V

Rated operating voltage 35 V (AC-15) 35 V (DC-13)

Operating voltage of the luminous

element, min.

Operating voltage of the luminous 28 V

element, max.

Rated voltage, min. 0.02 V Rated voltage, max. 35 V

Rated voltage, max. acc. to UL 30 V DC (42,4 V peak)

60947

Voltage type DC 0.1 A Rated operating current Rated operating voltage 0.02-35 V Rated current, min. 0.00001 A Rated current, max. 0.1 A Rated power, max. 1 W Power loss 0.7 W

Kind of short circuit protective fuse 250 V / 0,1 A / 1,5 kA gG quick

device

Overvoltage category

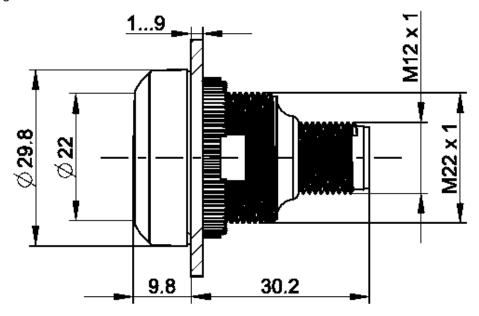
Conditional short circuit current 1,000 A

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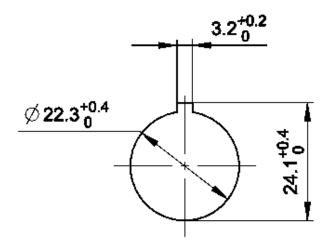


drawings

Dimensioned drawing



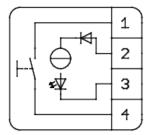
Mounting hole drawing



acc. to IEC 60947-5-1



Schematic diagram





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