

# RAMO 22 T, M12, square collar, momentary contact function, 1 NO, bezel blue

#### **DISCONTINUED**



#### 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
- > 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.



direct links

> RAFI eCatalog

#### technical data

#### > general

Potential free yes
Color black

Bezel color

Packaging

net weight

Packaging unit

Property of bezel / mushroom translucent

Collar color black Luminous element color blue Collar shape square -40 °C Operating temperature, min. Operating temperature, max. 85 °C Storage temperature, min. -40 °C 85 °C Storage temperature, max. illuminated Yes Luminous elements LED

Operating life 500,000 cycles B10 650,000 cycles

Degree of protection, front side, according to DIN EN 60529

IP66 IP67 IP69

Box

10 pcs.

14.2 g

blue

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

IP66 IP67

UL Enclosure Type Rating front

Environment resistance

side

type 4X indoor 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 05
MOQ order 30 pcs.

Pollution degree acc. to DIN EN

61010-1

Pollution degree 2

RoHS compliant Yes
REACH compliant Yes

#### > mounting diameters

Outside dimension, length 29.8 mm
Outside dimension, width 29.8 mm
Outside dimension, height 40 mm
Mounting hole 22.3 mm
Mounting depth 30.15 mm
Installation height 9.95 mm
Grid, min. 30 mm

Grid, min. 30 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 purposes may infringe the rights of the respective entity holding those rights.

**date**: Aug 31, 2024 **page**: 2/5

RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com



#### > mechanical data

Actuation function momentary contact function

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

electrical data

Rated insulation voltage 250 V Rated surge voltage 800 V

35 V (AC-15) Rated operating voltage

35 V (DC-13)

30 V DC (42,4 V peak)

20 V

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

60947

Rated operating current 0.1 A

Rated current, min. 0.00001 A

0.1 A Rated current, max. Rated power, max. 1 W Overvoltage category

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

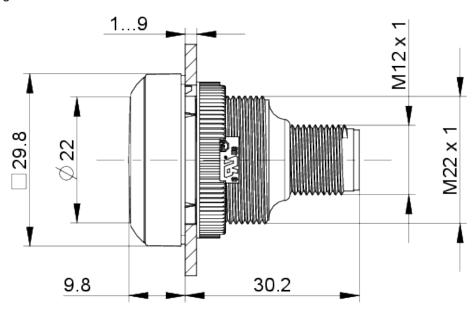
device

Conditional short circuit current 1,000 A

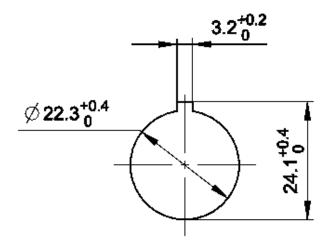


# drawings

#### **Dimensioned drawing**



#### Mounting hole drawing



acc. to IEC 60947-5-1



#### Schematic diagram

