

## RAMO 22 K, M12, round collar, 2 NO, Gold, M12 4-pin A-coded, frontring black, 2 x 90°, latching, key removal position 0


**NEW**


### fields of application

- › Measurement-control-regulation
- › Electrical engineering
- › Mechanical and system engineering
- › Signalling systems
- › Vehicle construction
- › Chemical industry
- › Industrial robots

### special features

- › Precise haptics
- › Safe gold contacts
- › Simple M12 plug&play connection
- › Protected contacts due to sealed housing



## description

Keylock switch with various switching positions and M12 terminal

## technical data

### › general

illuminated	No
Color	black
Collar color	black
Front ring 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
Shock resistance according to standard IEC 60068-2-27	30 g at 11 ms amplitude semi-sinusoidal
Packaging	Box
Packaging unit	2 pcs.
standard delivery time	3 weeks
Environment resistance	IEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-78
Operating life	50,000 Cycles
B10	62,627 Cycles
Degree of protection, front side, according to DIN EN 60529	IP65
Degree of protection, rear side, according to DIN EN 60529	IP65

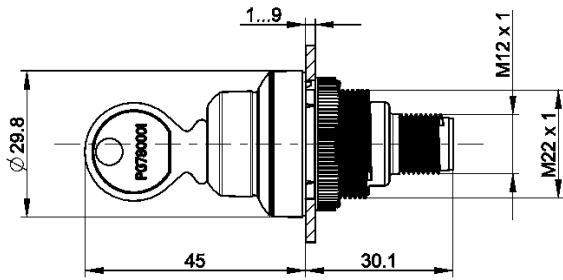
### direct links

- › [RAFI eCatalog](#)

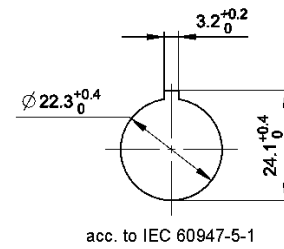
UL Enclosure Type Rating front side	type 4X
Salt-spray resistance according to standard	IEC 60068-2-11
RoHS compliant	Yes
REACH compliant	Yes
oscillation resistance according to standard IEC 60068-2-6	5 g at 10...500 Hz
MOQ order	2
<b>&gt; mounting diameters</b>	
Mounting hole	22.3 mm
Mounting depth	30.1 mm
Installation height	45 mm
Grid, min.	30 mm
Collar dimension	29.8 mm
<b>&gt; mechanical data</b>	
Actuation function	latching
Operating force, max.	1.3 N
Contact function	2 NO
Contact material	Gold
Locking position	019
Key removal position	0
Rotating angle	2 x 90°
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 Normally open contact 2
PIN 2	Normally open contact 2
PIN 4	Normally open contact 1
<b>&gt; electrical data</b>	
Rated insulation voltage	250 V
Rated surge voltage	2,500 V
Rated voltage, min.	1 V
Rated voltage, max.	32 V
Rated current, max.	0.1 A
Kind of short circuit protective device	fuse 250 V / 0,1 A / 1,5 kA gG quick
Rated operating voltage	35 V (AC-15) 35 V (DC-13)
Pollution degree acc. to DIN EN 61010-1	Pollution degree 2
Overvoltage category	2
Conditional short circuit current	1,000 A

**drawings**

**Dimensioned drawing**



**Mounting hole drawing**



**Schematic diagram**

