

# RAMO 22 K, M12, round collar, 1 NC + 1 NO, Gold, M12 4-pin A-coded, frontring black, 1 x 90°, shape V, 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.
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

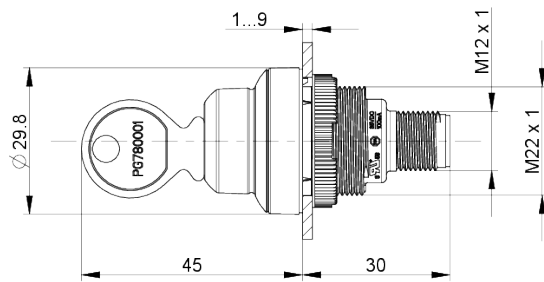
### direct links

- [RAFI eCatalog](#)

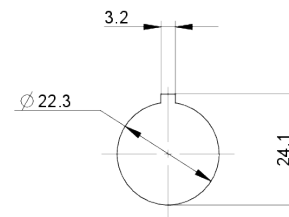
Salt-spray resistance according to standard	IEC 60068-2-11
RoHS compliant	Yes
REACH compliant	Yes
oscillation resistance according to standard IEC 60068-2-6	5 g at 10...500 Hz
<b>&gt; mounting diameters</b>	
Mounting hole	22.3 mm
Mounting depth	30 mm
Installation height	45 mm
Outside dimension, length	29.8 mm
Outside dimension, width	29.8 mm
Collar dimension	29.8 mm
<b>&gt; mechanical data</b>	
Actuation function	latching
Operating force, max.	1.3 N
Contact function	1 NC + 1 NO
Contact material	Gold
Key lock	Kaba
Key removal position	0
Rotating angle	1 x 90°, shape V
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 Normally open contact 1
PIN 2	Normally closed contact 1
PIN 4	Normally open contact 1
<b>&gt; electrical data</b>	
Rated voltage, min.	10 V
Rated voltage, max.	32 V
Rated current, max.	0.2 A

## drawings

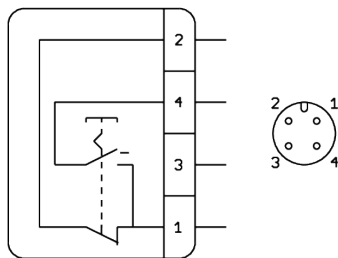
### Dimensioned drawing



### Mounting hole drawing



### Schematic diagram



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