

# 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+1


**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

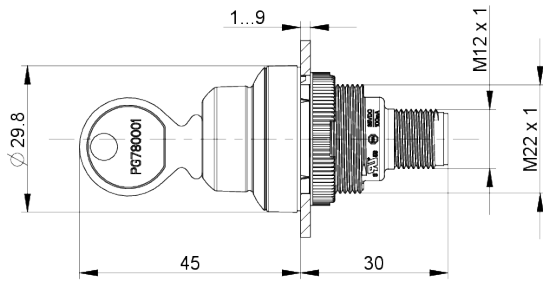
### direct links

- › [RAFI eCatalog](#)

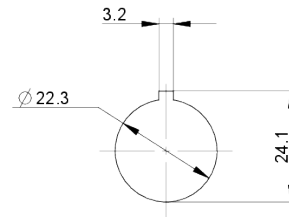
Salt-spray resistance according to standard	IEC 60068-2-11
RoHS compliant	Yes
REACH compliant	Yes
oscillation resistance according to standard IEC 60068-2-6	5 g at 10...500 Hz
<b>&gt; mounting diameters</b>	
Mounting hole	22.3 mm
Mounting depth	30 mm
Installation height	45 mm
Outside dimension, length	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+1
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**

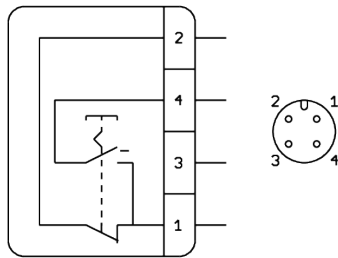
**Dimensioned drawing**



**Mounting hole drawing**



**Schematic diagram**



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