



KISSLING LIMIT SWITCH

Series G12 - from TE Connectivity (TE)

Switch for specific shock and vibration levels

The G12 series originally developed for aerospace and commercial vehicles can also be integrated in many vehicles, which need to fulfill specific shock and vibration related requirements.

Based on its compact design, the different actuators and the variety of connection types, the KISSLING G12 limit switch can be integrated in difficult positions and under extreme environmental conditions to ensure dependability.

The KISSLING G12 limit switch complies i.a. with VG 95210 for shock and vibration and meets MIL-S-8805 many of our G12 limit switch are also NSN (NATO Stock Number) listed.

Features

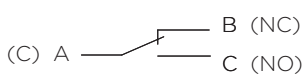
- Military grade switch (VG 95210; MIL-S-8805)
- 1- & 2-pole versions
- Available with silver or gold contacts
- Shock (100G) and vibration (15G)
- Different actuator options available
- Electrical connection options include various military connectors and cables

Applications

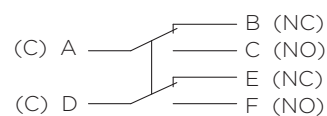
- Commercial and military motor vehicles
- Military ground equipment and vehicles
- Plant and industrial engineering
- Marine applications
- Aviation ground support vehicles

Circuits

Single Pole



Double Pole



KISSLING LIMIT SWITCH

Series G12

Specification

Technical Data

Housing Material	Stainless steel
Temperature range	-55°C to +85°C
Protection (does not include spliced cable end)	IEC 60529, IP67 (0,2 bar, 5min)
Vibration i.a.w. MIL-STD-202; Method 204; Test condition B (10-2000 Hz)	15g
Shock i.a.w. MIL-STD-202; Method 213; Test condition I (6 ms; sawtooth)	100g
Insulation resistance i.a.w MIL-STD-202; Method 302; Test condition B (500 V; 1 min)	min. 100 MΩ
Dielectric withstanding voltage i.a.w MIL-STD-202; Method 301	1050VAC
Pre-travel	1 ± 0.5mm
Differential-travel	max. 0.6mm
Total-travel ball- and chisel actuator	6.5 ± 0.5mm
Total-travel roller actuator	5.5 ± 0.5mm
max. approach speed at an angle of <30° Ball, Chisel	5m/min
Roller	30m/min
Operating force	30 ± 5 N
Endurance i.a.w. MIL-S-8805; §4.8.26 (28 VDC; 1 Amps)	100.000 cycles
i.a.w. MIL-S-8805; §4.8.26 (28 VDC; 5 Amps)	25.000 cycles
only silver contacts	

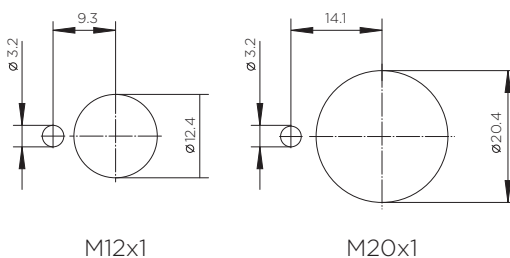
All switches will be delivered with 2 hex nuts, 1 lockwasher and 1 keyway washer

Switch inserts

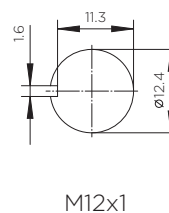
Type	MS 24547-1 / silver		MS 24547-2 / gold	
	max.	min.	max.	min.
i.a.w. MIL-S-8805	up to +82°C		up to +82°C	
Electrical rating				
Resistive load	28VDC, 7A	15VDC, 10mA	28VDC, 0.4A	15VDC, 5mA
inductive load	28VDC, 7A	5VDC, 20mA	28VDC, 0.2A	5VDC, 10mA

Mounting dimensions

Mounting hole:
with locking ring



Mounting hole:
without locking ring



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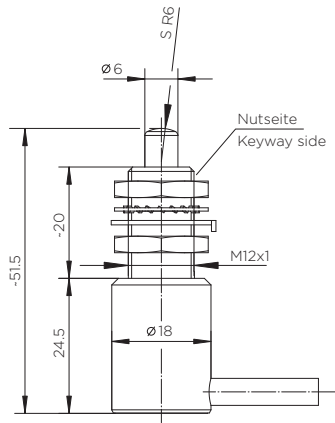
Series G12

Technical drawings

G12. 2 .M. ■

G12. 2 .N. ■

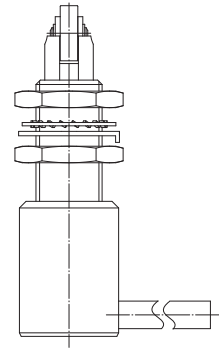
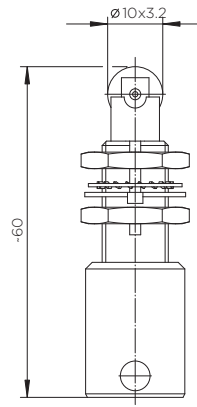
G12. 2 .S. ■



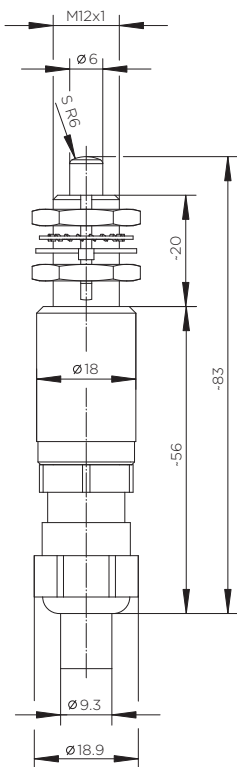
G12. 1 .M. ■

G12. 1 .N. ■

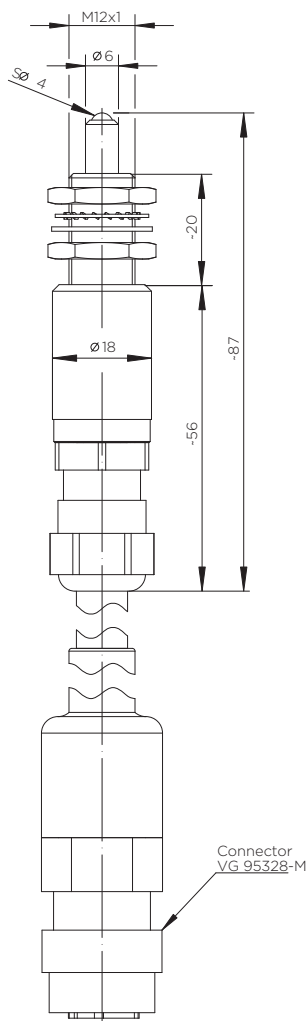
G12. 1 .S. ■



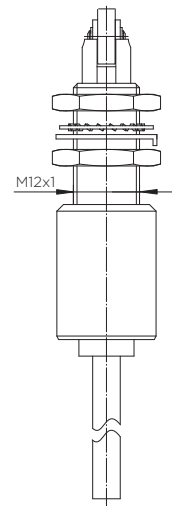
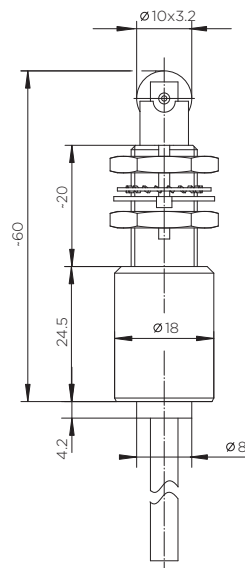
G12. 2 .O. ■



G12. 3 .P. ■



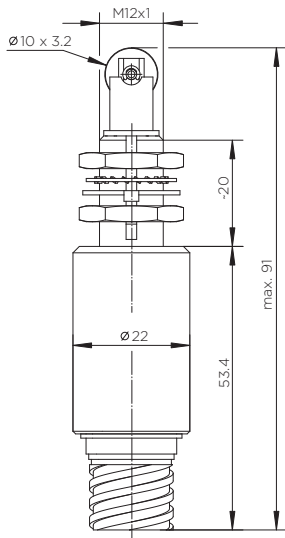
G12. 1 .A. ■



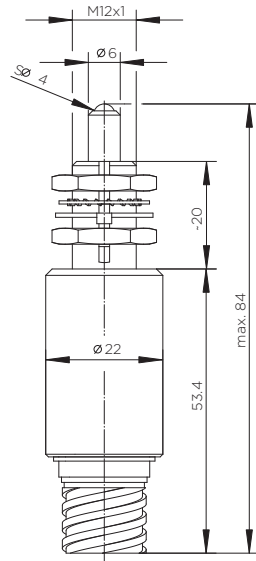
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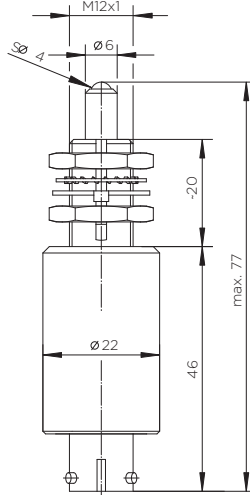
G12. 1 1 .D.



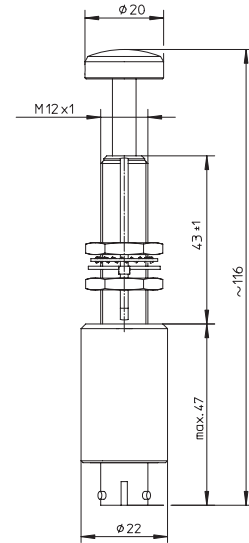
G12. 3 3 .D.



G12. 3 3 .E.



G12. 4 4 .D.



Ordering Information

Part Number
example: G12.221.O.15
G12.

Circuits

1	Single pole - change over
2	Double pole - change over

Actuator

1	Roller plunger
2	Domed plunger
3	Ball plunger
4	Push button

Switch inserts

1	MS 24547-1 (silver contacts)
2	MS 24547-2 (gold contacts)

Cabel length

__	i.e. 15 = 1.5m
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Connection types

A	Cable: Raychem 0.25mm ² , cable exit base
D	Connector MIL-DTL-38999 III
E	Connector VG 95328 compatible
M	Cable: Raychem 0.25mm ² , cable exit side
N	Cable: PVC 0.25 mm ² , cable exit side
O	Cable: Radox 0.5 mm ² , cable exit base
P	Cable: MNZ 96694 0.6 mm ² with connector 95328-M, cable exit base
S	Cable: Raychem SEPD 63609A AWG24 shielded, cable exit side

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