



Limit switch metal encapsulated

Features

- Very robust construction
- IP 67 type of protection
- A choice of cable exit positions
- 16 different actuator versions

Description

Limit switches of the RET range are metal-encapsulated precision switches with a robust and compact explosion-proof structures.

Our connection cable comes prewired, is equipped with a strain-relief device and safely cast into the enclosure. We supply this robust limit switch with a standard cable length of three meter. Special cable lengths and switches with lateral cable outlets are available on request. The integrated basic switch has a single-pole changeover contact with high switching accuracy and a precise repeatability of the switching point.

Its high vibration resistance and long mechanical life are the result of extensive laboratory tests. The high protection class, IP 67, allows the switch to be used in nearly all fields of automation, mechanical and high-tec engineering.

Explosion protection

Ex protection type

- ⊕ II 2G Ex d IIC T6
- ⊕ II 2D Ex tD A21 IP 65 T 80 °C

Certification

PTB 03 ATEX 1142 X

Ambient temperature

- 20 °C to +60 °C for T6
- 20 °C to +90 °C for T5 at 3 A

Technical data

Protection class

IEC/EN 60529:IP 65

Enclosure

aluminium-alloy, hard-coated

Switching element

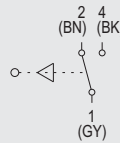
integrated micro-switch

Connection

4-core cable (H05VV-F)
cross section: 0.75 mm²
cable length: 1 m
other lengths on request

Coloured flexible leads

- 1 = GY
- 2 = BN
- 4 = BK
- PE = GN/YE



Equipotential bonding

external Ex terminals

Utilization category

AC 15	5 A	250 V
DC 13	0.16 A	230 V

Switching capacity

	AC	DC (induct.)	DC (ohmic)
250 V	6.5 A	-	-
220 V	-	0.16 A	-
110 V	-	0.2 A	0.5 A
60 V	-	0.5 A	1.0 A
24 V	-	4.0 A	5.0 A
12 V	-	6.5 A	6.5 A

Electrical data

Type of contact

single-pole changeover contact

Contact resistance

60 mΩ, measure at the end of the cable a cable length of 1 metre

Mechanical data

Switching point tolerance

± 0.5 mm depending on the actuator

Switching force tolerance

± 1 N

Repeat accuracy

± 0.1 mm

Mechanical life

10⁶ switching cycles

Vibration resistance

10 g at 10 to 2 000 Hz

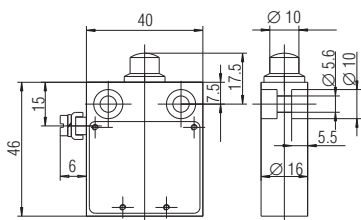
Shock resistance/shock stability

50 g at a shock duration of 6 ms

Cable outlet

- bottom
- side
- with bottom screw socket
- with lateral screw socket

Dimensions in mm



Selection chart

Contact material	Code no.	Cable outlet	Code no.	Cable length	Code no.
Ag	1	bottom	1	3 m	3
Ag Au 0.1 A	3	side	2		
Au 0.1 A	4	with bottom screw socket	3	special lengths on request	0
		with lateral screw socket	4		

Complete order no.

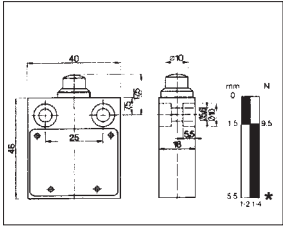
Please enter code number.

07-295 - 30/ Actuator

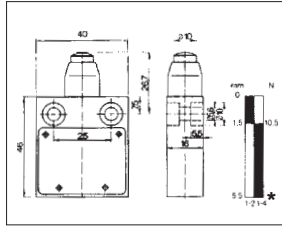


Dimensional drawings and contact travel diagrams

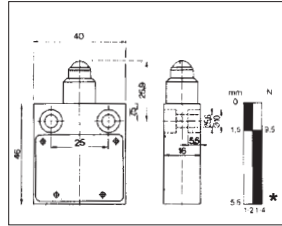
Plunger 07-2951-..30/01



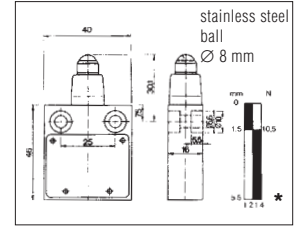
Membrane plunger 07-2951-..30/02



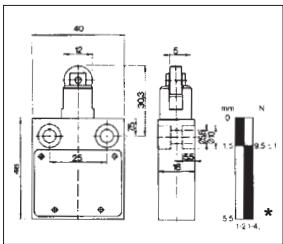
Spherical plunger 07-2951-..30/03



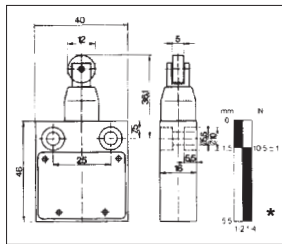
Spherical membrane plunger 07-2951-..30/04



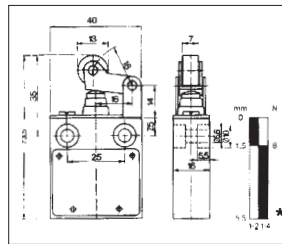
Roller plunger 07-2951-..30/09



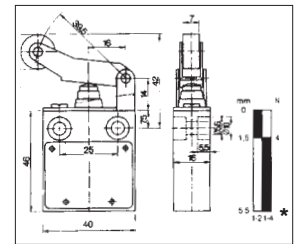
Membrane roller plunger 07-2951-..30/10



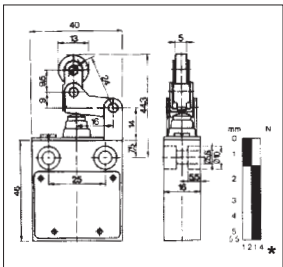
Membrane roller lever 07-2951-..30/14



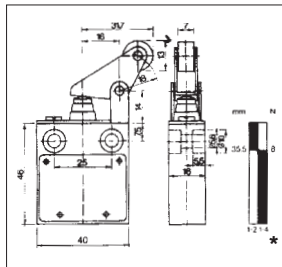
Membrane roller lever, long 07-2951-..30/16



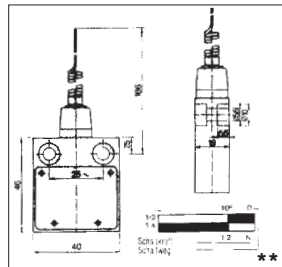
Membrane toggle roller lever 07-2951-..30/18



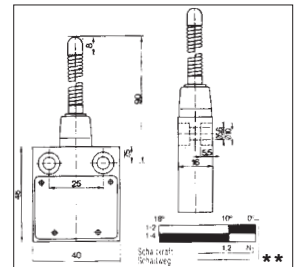
Parallel roller lever 07-2951-..30/20



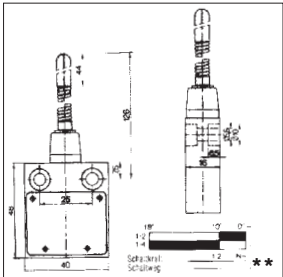
Feeler lever 07-2951-..30/32



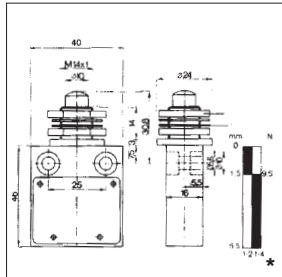
Feeler-butt lever 07-2951-..30/34



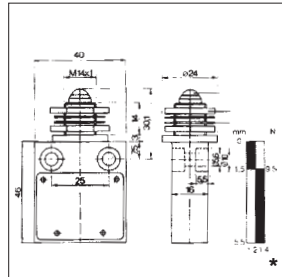
Feeler plastic lever 07-2951-..30/36



Front-mounting dome plunger 07-2951-..30/47



Front-mounting spherical plunger 07-2951-..30/49



Front-mounting-roller lever 07-2951-..30/51

