



Limit switch plastic encapsulated

Features

- Positive break contacts
- Very robust construction
- IP 65 protection class
- 13 different actuator versions
- Operator protection in accordance with GS-ET 15

Description

Besides the metal-enclosed precision switch of the RET series, BARTEC also offers a series of limit switches with plastic bodies. The enclosure is made of shock impact resistant proof plastic providing an IP 65 protection class according to IEC/EN 60529. Due to its format several limit switches can be mounted in tandem formation requiring very little space.

This allows a multiple triggering of switching operations. The connection cable is equipped with a strain relief device, prewired and safely cast into the enclosure by means of epoxy resin. We supply this robust limit switch with a standard length of 3 m; special lengths are available on request.

The integrated switching element changes over via NC contact with positive break operation. Operator protection corresponds the the GS-ET 15 requirements.

Its high vibration resistance and long life are the result of a most extensive laboratory research. The certification for hazardous areas and the high protection class granted thanks to its structural characteristics are the ideal prerequisites for its use in almost all fields of automation, mechanical and high-tec engineering.

Explosion protection

Ex protection type

- ⊕ II 2G Ex d IIC T6/T5
- ⊕ II 2D Ex tD A21 IP 65 T 80 °C/90 °C

Certification

PTB 03 ATEX 1143 X

Ambient temperature

- 20 °C to +65 °C for T6
- 20 °C to +90 °C for T5 at 3 A

Technical data

Protection class

IEC/EN 60529:IP 65

Enclosure

shock-resistant thermoplastic material, self-extinguishing
UL 94-V0

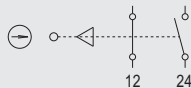
Switching element

- 1 NO/1 NC contact
- both galvanically isolated
- NC contact with pos. break (VDE 0113, Teil 1)

Connection

4 core cable H05VV-F
cross section: 0.75 mm²
cable length: 3 meters
other lengths on request

Colour coding of the flexible leads

- 11 = BN
 - 12 = BU
 - 23 = BK
 - 24 = GY
- 

Electrical structure

- EN 60947-5-1
- EN 60947-1

Nominal voltage

AC 250 V/DC 230 V

Nominal current

- AC 6 A
- DC 0.25 A

Switching capacity		
	with AC 15	with DC 13
250 V	6 A	-
230 V	-	0.25 A

Mechanical datas

Switching point tolerance

± 0.5 mm depending on the actuator

Actuality force tolerance

± 1 N

Repeat accuracy of switching

± 0.02 mm

Mechanical life cycles

5 x 10⁶ cycles

Max. switching frequency

1 800 cycles/h

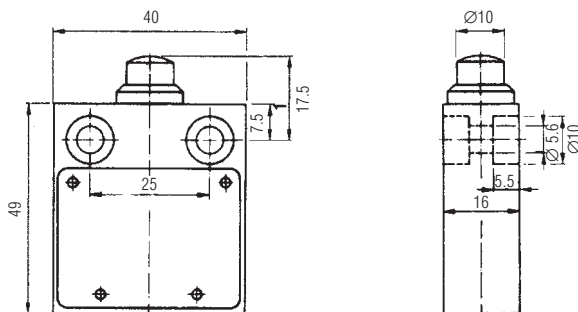
Vibration resistance

10 g at 10 to 2 000 Hz

Shock resistance/shock stability

50 g at a shock duration 6 ms

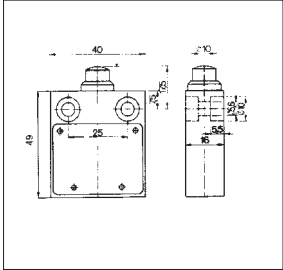
Dimensions



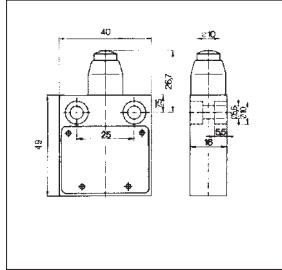


Selection chart

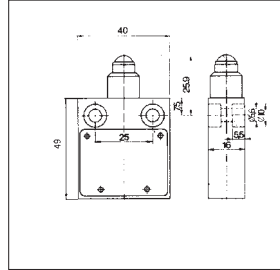
Plunger
07-2961-1.62/01



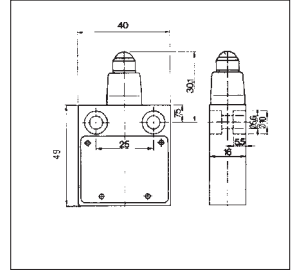
Membrane plunger
07-2961-1.62/02



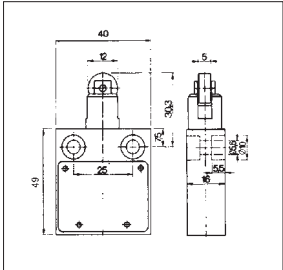
Spherical plunger
07-2961-1.62/03



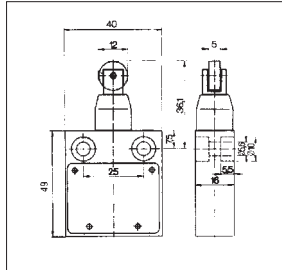
Spherical membrane plunger
07-2961-1.62/04



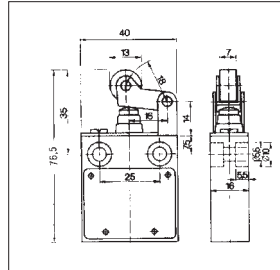
Roller plunger
07-2961-1.62/09



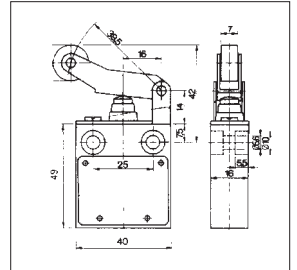
Membrane roller plunger
07-2961-1.62/10



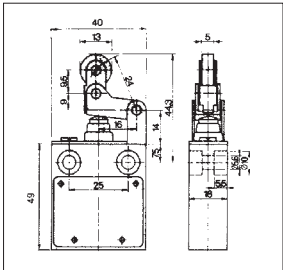
Membrane roller lever
07-2961-1.62/14



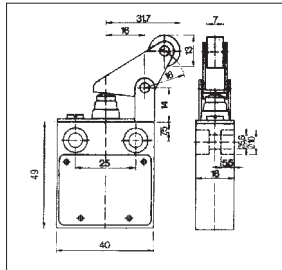
Membrane roller lever, long
07-2961-1.62/16



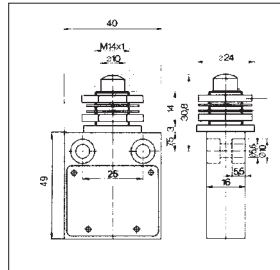
Membrane roller toggle lever
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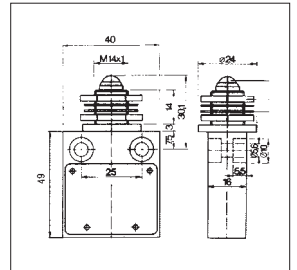
Parallel roller lever
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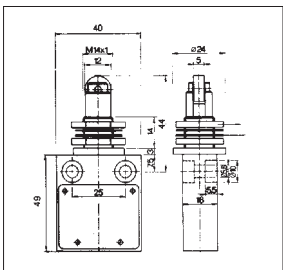
Front mounting/dome plunger
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Front mounting/spherical plunger
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Front mounting/roller lever
07-2961-1.62/51



Complete

order no.

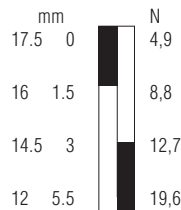
Bitte Kennziffer einsetzen

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Cable length	
3 meters	3
Special lengths on request	0

Actuator

Contact travel diagram



Actuating force
Plunger travel
Plunger position
reference to fixing holes