

**ELECTRICAL CONTACTS
FOR PRESSURE AND TEMPERATURE GAUGES
635-636-637-W635-W636-W637**

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TYPES, DIMENSIONS AND WEIGHTS

Standard electrical contacts:

Standard electrical contacts ensure careful switching accuracy with reduced hysteresis. However they are vibration sensitive and are not suitable for pressure gauges with damping liquid. In addition, very slow pressure variations can cause electric arcs that impair their duration.

Functional and constructive features:

Switching accuracy: 1.5 times the accuracy of the instrument.

This publication does not try to establish the bases of a contract and the company keeps the right to modify without previous notice the design and the specifications of the instruments, in accordance with his politics of continued development.

Electrical contacts with magnetic locking:

This type of contacts are used to ensure reliable switching in pressure gauges with damping liquid and in the presence of vibrations. The action of the magnet ensures a sudden switching and makes the contact less sensitive to vibrations giving it longer life. The force required to overcome the magnet's attraction causes a hysteresis of the switching value that varies from 2% to 5% of the value of the scale background depending on the scale of the instrument.

Functional and constructive features:

Switching accuracy: 1.5 times the accuracy of the instrument.

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Switching hysteresis: 0,3% of the background value scales.

Breaking power: 10W/18VA.

Max. voltage/current: 250 Vca / 0,7A (resistive load).

Contact material: Silver-Nickel 80/20%.

Regulation: full scale (270°) by means of an external key.

electrical connection: VDE-standard junction box.

WORKING CURRENT (1)

Volt	CC	CA	Inductive load
220	40 mA	45 mA	25 mA
110	80 mA	90 mA	45 mA
48	120 mA	170 mA	70 mA
24	200 mA	350 mA	100 mA

minimum values Vcc: 24 Vcc / 20 mA

(1) Recommended by DIN 16085

Switching hysteresis: 2...5% of the background value scales.

Breaking power: 30W/50VA (20W/20VA with liquid).

Max. voltage/current: 250 Vca/1A (carga resistiva).

Contact material: Silver-Nickel 80/20%.

Regulation: full scale (270°) by means of an external key.

electrical connection: VDE-standard junction box.

WORKING CURRENT (1)

Volt	CC	CA	Inductive load
220	100 mA	120 mA	65 mA
110	200 mA	240 mA	130 mA
48	300 mA	450 mA	200 mA
24	400 mA	600 mA	250 mA

minimum values Vcc: 24 Vcc / 20 mA

For instruments with damping liquid:

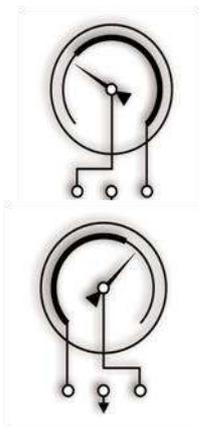
Volt	CC	CA	Inductive load
220	65 mA	90 mA	40 mA
110	130 mA	180 mA	85 mA
48	190 mA	330 mA	130 mA
24	250 mA	450 mA	150 mA

minimum values Vcc: 24 Vcc / 20 mA

SIGNAL AMPLIFIERS:

The use of signal amplifiers is particularly indicated in pressure gauges with damping liquid subjected to frequent interruptions, where the damping liquid guarantees a longer manometer life. Prevents the eventual formation of electric arcs and the consequent deposit of carbonic waste from the combustion of the liquid in the active part of the contact that hinder its operation. Signal amplifiers reduce the value of the current passing through the electrical contact by preventing arcing, transmitting the status (open or closed) of the contact via an output relay or a transistor.

One contact



contacts function

Closes when up.
Open when down.
Contact remains open below checkpoint.

Contact Type

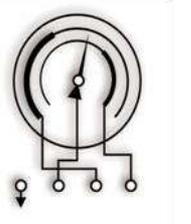
Type 1
Maximum
Normally open.

Open when up.
Close when down.
Contact remains close below checkpoint.

Type 2
Minimum
Normally close.

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Two contacts

contacts function	Contact Type
	<p>Closes when up. Opens when down. Contacts remain open below checkpoint.</p> <p>Type 11 Maximum-Maximum 2 Normally open</p>
	<p>Closes when up. Closes when down. Contacts remain close below checkpoint.</p> <p>Type 22 Minimum-Minimum 2 Normally close.</p>
	<p>Coming up, the first contact close and later the second open</p> <p>Type 12 Maximum-Minimum</p> <p>coming down, the second contact close and later the first contact open.</p> <p>1º Normally open. 2º Normally close. With interference from work areas.</p> <p>In the middle zone, the two contacts remain closed simultaneously.</p>
	<p>Coming up, the first contact open and later the second close coming down, the second contact open and later the first contact close.</p> <p>Type 21 Minimum-Maximum</p> <p>1º Normally close. 2º Normally open.</p> <p>In the middle zone, the two contacts remain open simultaneously.</p> <p>With independence from work areas..</p>

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