Material with electrical contacts

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Some of our material can be equipped with electrical contacts that can allow them, furthermore their indication function, to assure a regulation, signalisation or alarm function. There are two families of electrical contacts:

1. Micro-contacts with hard breaking, adjusted in factory

Unipolar Inverter Switch, with a breaking set point of 3 Ampere under 220 Volts. This breaking power allows to control directly one contactor or a little electrovalve.

The functioning point for rising pressure is different from the functioning point for falling pressure. This difference, called bracket is included between 10 and 25% of the graduation scale.

Brown Black Blue Green-Yellow

Contact represented at the minimum pressure or temperature.
The rising of the pressure, depression or temperature induces the inversion of the contact.

ADJUSTMENT: specific to each range of material.

ELECTRICAL CONNECTION: for each contact, by a wire 4 conductors, length of 800 mm according to scheme 211603.

2. Sensible contacts without hard breaking adjustable on the glass

These contacts have a maximum breaking power of 25 VA, maximum tension 220 Volts, maximum intensity 0,1 Ampere This low power makes generally compulsory the use of an auxiliary relay with very low consumption (see leaflet Relay R2F).

ADJUSTMENT: These contacts are adjustable on all the graduation scale with buttons placed on the centre of the transparent.

: Their bracket is nearly zero. The functioning point is marked by a blue index (mini contact) or red (maxi contact).

ELECTRICAL CONNECTION: By a 3 conductors wire for contacts (the table 2.A)

: By a 4 conductors wire for all other contacts (Table 2.B. and 2.C.)

: For all contacts, the length of this cable is of 800 mm.

: Cabling scheme - see tables below.

2.A. Glass with 1 contact Scheme 212 382/1: Material with maxi contact Circuit closing by the rise of pressure, This contact can be closed by the rising of the pressure (maxi) or the falling of depression or temperature. Black the pressure (mini): Green-Yellow · When the contact is open, the reading is not perturbated; When the contact is closed, if the pressure continues to rise (maxi) or to Scheme 212 382/2: Material with mini contact fall (mini) beyond the closing point, the reading is slightly moved, late Circuit closing by the fall of pressure, (maxi) or in advance (mini). Black depression or temperature. The contact is isolated from the ground and the connection is done by a 3 -Blue conductor's cable with length of 800 mm (with wire green-yellow to the ground) Green-Yellow

Glass with 1 Inverter Switch Scheme 209 021/1: Material with 1 maxi contact This contacts are Inverter Switch: Circuit closing by the rise of pressure or depression Blue 1 circuit is closing when the pressure rises (maxi) or falls (mini); Common The other circuit opens when the pressure already rises slightly (maxi) or Black Circuit opening by the rise of pressure or depression falls slightly (mini). Green-Yellow So there is a little re-covering which allows eventually to have a crossing Scheme 209 021/2: Material with 1 mini contact contact. When the pressure : Black . Is below the maxi contact and superior to the mini contact, the reading is Circuit opening by the fall of pressure or depression Blue not disturbed: Common · Has passed the functioning point, the reading is a little moved, late Brown Circuit closing by the fall of pressure or depression (maxi), or in advance (mini). Green-Yellow

2.C. **Glass 2 contacts** a/ «1 maxi contact and 1 mini contact» Scheme 209 021/3: Material with 2 MAXI-MINI Contacts These 2 contacts, which have always a common point, close when the pressure Black Circuit closing by the rise of pressure or depression rises (maxi), or falls (mini). When the pressure: Brown • Is included between the mini and the maxi, the reading is not disturbed. Blue Circuit closing by the fall of pressure or depression Is inferior to the mini, the reading is slightly disturbed in advance. Green-Yellow Arrives to the maximum point, the reading stops at this point, but if it continues to rise, the material is not damaged. b/ «2 maxi Contacts» or «2 mini Contacts » Scheme 209 021/4: Material with 2 MAXI Contacts These contacts always have a common point and close at 2 different values Black: 2nd maxi Circuit closing for a pressure or depression Superior to the closing point of the first maxi contact. when the pressure rises (maxi) or falls (mini). When the pressure: Is inferior to the first maxi or superior to the first mini, the reading is not Brown disturbed. Green-Yellow Is situated between the 2 maxi, or the 2 mini, the reading is slightly disturbed, late (maxi) or in advance (mini). Scheme 209 021/5: Material with 2 MINI Contacts When the second maxi or mini contact is closed, if the pressure continues to Blue : 2nd mini Circuit closing for a pressure or depression Inferior to the closing point of the first mini contact rise (maxi) or to fall (mini) beyond, the reading is stopped at this point, but the Black: 1st mini Circuit closing for a falling of pressure or depression manometer is not damaged. Contacts adjustment: done by 2 independent buttons. Green-Yellow



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