

P.A. - S.p.A. - EQUIPAGGIAMENTI TECNICI DEL LAVAGGIO

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Tel. +390522623611 - Fax. +390522629600 - R.E.A. RE 156319 - R. I. RE 11535 - Mecc. RE 013446 C.F. e P. IVA 01035950359 - Cap. Soc. i.v. $\in 750.000,00$ - Codice Identificativo C.E.E. IT 01035950359 ART. 2497 - BIS C.C. DIREZIONE E COORDINAMENTO BENETTI srI R.I. TRIB. DI RE 01480690351 http://www.pa-etl.it - E-mail: info@pa-etl.it


## PR5 - PRESSURE SWITCH with electric signal



Technical manual: E 802
Electro-mechanical device, which, upon reaching a pre-set pressure, opens or closes an electrical control contact .


- Microswitch with very high resistance openings
- Considerable resistance to high current values.
- Compact overall dimensions
- Electrical insulation: IP55
- Possibility to choose from 4 different pressure settings acting on the electrical switch.
- Three core cable.
- Two threaded connection versions.

TECHNICAL SPECIFICATIONS


Max rated voltage: 250 V
Breaking switch: 6 (A) - resistive load - 2 (A) - inductive load
Cable length: 1000 mm - Electric wire : $3 \times 0.75 \mathrm{~mm} 2$
Environment temp.: $75{ }^{\circ} \mathrm{C}$ - Type of action: 1 C
Lifetime electrical component: 50.000 commutations, $\mathrm{T} .5^{\circ} \mathrm{C}$, a 250 V a.c. in line with CEE 24- VDE 0630 Pollution situation of the device control: High
(1) The Pressure switch has been designed for a continuous use at a water temperature of $60^{\circ} \mathrm{C}$. It can resist for short periods at a maximum temperature of $90^{\circ} \mathrm{C}$.

| n .12 .9802 .00 |
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## DIMENSIONAL DRAWING

|  |  |
| :---: | :---: |
| CODICE CODE | X |
| 29.0080 .00 | G $1 / 4 \mathrm{M}$ |
| 29.0080.05 | G $1 / 8 \mathrm{M}$ |
| 29.0080.10 | G $1 / 4 \mathrm{M}$ |
| 29.0080.18 | G $1 / 8 \mathrm{M}$ |
| 29.0080 .50 | G $1 / 4 \mathrm{M}$ |
| 29.0080.55 | G $1 / 8 \mathrm{M}$ |
| 29.0080.75 | G $1 / 8 \mathrm{M}$ |
| 29.0080 .80 | G $3 / 8 \mathrm{M}$ |
| 29.0080 .85 | G $3 / 8 \mathrm{M}$ |
| 29.0080.88 | G $3 / 8 \mathrm{M}$ |



COD 29.0076.15


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## INSTRUCTIONS

## SELECTION

Choose the appropriate pressure switch for the rated pressure of the system and for the on/off operations. Check that the value of the requested current is under the maximum rated value. The fixed setting of the switch is distinguished by three different colours of the nut In any case, the pressure of the machine should not exceed the permissible pressure rate imprinted on the pressure switch.

## INSTALLATION

When installed on machines that produce hot water, the pressure switch has to be fitted in front of the heat generator. This accessory has to be installed on a finished machine. Electrical installation has to be carried out by a qualified person.

WARNING !! - Always assure earth wiring to the electric device.


## WIRING DIAGRAM

1) RED - 2) BLUE - 4) BROWN

## ELECTRICAL CONNECTION

N.O. RED + BROWN - Normally opened
N.C. RED + BLUE - Normally closed

## OPERATIONS

The PR5 Pressure switch signals the surpass of a pre-set pressure, through a piston, which operates a switch lever.
The set pressures are respectively; 10 bar -1 MPa ; $15 \mathrm{bar}-1.5 \mathrm{MPa} ; 25 \mathrm{bar}-2.5 \mathrm{MPa}$ and $40 \mathrm{bar}-4 \mathrm{MPa}$ of the fixed type.

## PROBLEMS AND SOLUTIONS

| PROBLEMS | PROBABLE CAUSES | SOLUTIONS |
| :--- | :--- | :--- |
| Pressure switch does not | Electric connection faulty or loose | Check and/or replace |
| function | Rupture of microlever | Replace microswitch |
|  | Rupture of piston spring | Replace |
|  | Rupture of microcontacts <br> Jeplace microswitch |  |
| Jluid in the casing piston | Check and/or replace |  |
|  | Damaged piston seals | Check and/or replace |
|  | Damaged nut seals | Check and/or replace |

## REGULATIONS:

The accessory hereby described bears the CE marking in accordance with the Norms and Directives applied on the Declaration of Conformity.

For a correct utilization, follow the directions described in this manual and re-print them on the Use and maintenance manual of the machine
Make sure that you are given the Original Conformity Declaration for the accessory chosen. The present manual is valid for all Pressure switches named PR5

## SPARES

Use only original PA spares, in order to benefit for a correct function and long reliability.

## MAINTENANCE

STANDARD: every 400 working hours (circa 10,000 cycles), check and lubricate the seals with water resistant grease.
SPECIAL: every 800 working hours( circa 20,000 cycles), control the wear of the seals and internal parts and if necessary, replace with original PA parts taking care during installation and to lubricate with water resistant grease.
Maintenance has to be carried out by Specialized Technicians
For a correct assembly, follow the phases indicated on the exploded view referred.
The manufacturer is not to be considered responsible for damage as a result from incorrect fitting and maintenance

Technical data, descriptions and illustrations are indicative and liable to modification without notice
29.0080.00 PR5 press.sw.,brass,1/4M Bsp 25bar red 29.0080.10 PR5 press.sw.,brass,1/4M Bsp 15bar blue 29.0080.50 PR5 press.sw.,brass,1/4M Bsp-4MPa-black
29.0080.75 PR5 press.sw.,brass,1/8M Bsp 10bar yell.
29.0080.80 PR5 press.sw.,brass,3/8M Bsp 40bar black


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