

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

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CE

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 .



•	29.0080.00	PR5	G1/4M	rated 25bar – 2.5MPa
•	29.0000.00	FRO	G 1/410	Taleu Zobar – Z.Sivira
٠	29.0080.05	PR5	G1/8M	rated 15bar – 1.5MPa
٠	29.0080.10	PR5	G1/4M	rated 15bar – 1.5MPa
٠	29.0080.18	PR5	G1/8M	rated 25bar – 2.5MPa
٠	29.0080.50	PR5	G1/4M	rated 40bar – 4 MPa
٠	29.0080.55	PR5	G1/8M	rated 40bar – 4 MPa
٠	29.0080.75	PR5	G1/8M	rated 10bar – 1 MPa
٠	29.0080.80	PR5	G3/8M	rated 40bar – 4 MPa
٠	29.0080.85	PR5	G3/8M	rated 25bar – 2.5MPa
٠	29.0080.88	PR5	G1/4M	rated 15bar – 1.5MPa
٠	29.0076.15	PR5	G3/8MF	rated 15bar – 1.5MPa
٠	29.0077.15	PR5	G3/8MF	rated 15bar – 1.5MPa

- 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.

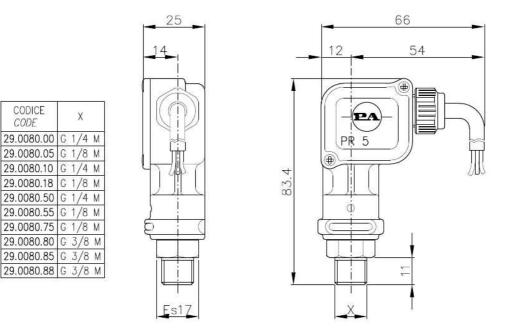
TECHNICAL SPECIFICATIONS								
PART NUMBER	RATED PRESSURE bar - MPa	PERMISSIBLE PRESSURE bar - MPa	INTERVENT. PRESSURE bar - MPa	COLOR	DIFFERENT. WORKING PRESSURE bar - MPa	(1) MAX.TEMP OF THE FLUID ℃	INLET	WEIGHT g
29.0080.00	250 - 25	280 - 28	25 – 2.5	RED	±8	90	G 1/4 M	130
29.0080.05	250 - 25	280 - 28	15 – 1.5	BLUE	±6	90	G 1/8 M	130
29.0080.10	250 - 25	280 - 28	15 – 1.5	BLUE	±6	90	G 1/4 M	130
29.0080.18	250 - 25	280 - 28	25 – 2.5	RED	±8	90	G 1/8 M	130
29.0080.50	250 - 25	280 - 28	40 - 4	BLACK	±10	90	G 1/4 M	130
29.0080.55	250 - 25	280 - 28	40 - 4	BLACK	±10	90	G 1/8 M	130
29.0080.75	250 - 25	280 - 28	10 - 1	YELLOW	±4	90	G 1/8 M	130
29.0080.80	250 - 25	280 - 28	40 - 4	BLACK	±10	90	G 3/8 M	130
29.0080.85	250 - 25	280 - 28	25 – 2.5	RED	±8	90	G 3/8 M	130
29.0080.88	250 – 25	280 - 28	15 – 1.5	BLUE	± 6	90	G 1/4 M	130
29.0076.15	250 - 25	280 - 28	15 – 1.5	BLUE	±6	90	G 3/8 MF	220
29.0077.15	250 - 25	280 - 28	15 – 1.5	BLUE	±6	90	G 3/8 MF	230
ELECTRICAL SPECIFICATIONS								

Max rated voltage:	250 V
Breaking switch:	6 (A) – resistive load - 2 (A) – inductive load
Cable length :	1000 mm – Electric wire : 3 x 0.75 mm2
Environment temp.:	75 ℃ – Type of action: 1C
Lifetime electrical component:	50.000 commutations, T.85℃, a 250V a.c.in line with CEE 24- VDE 0630
Pollution situation of the device control:	High

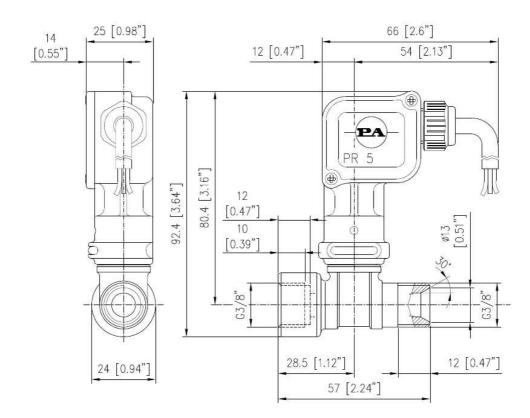
(1) The Pressure switch has been designed for a continuous use at a water temperature of 60°C. It can resist for short periods at a maximum temperature of 90°C.

Instruction manual, maintenance, installation, spare parts.	n. 12.9802.00
For a correct utilization, follow the directions of this manual.	
Re-print them on the use and maintenance booklet of the machine	

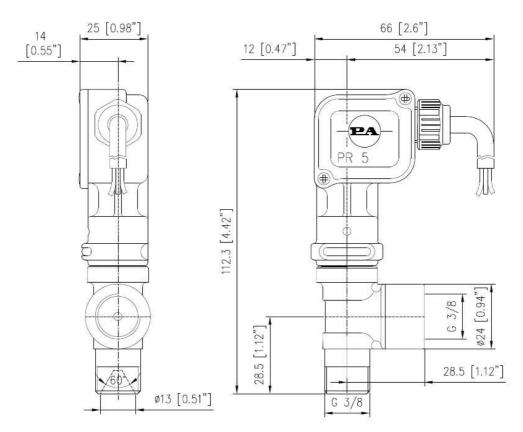
DIMENSIONAL DRAWING



COD 29.0076.15



COD 29.0077.15



INSTRUCTIONS

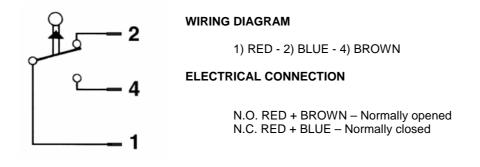
SELECTION

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.



OPERATIONS

PROBLEMS AND SOLUTIONS

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Pressure switch does not function	Electric connection faulty or loose Rupture of microlever Rupture of piston spring Rupture of microcontacts Jammed piston	Check and/or replace Replace microswitch Replace Replace microswitch Check and/or replace
Fluid in the casing	Damaged piston seals Damaged nut seals	Check and/or replace 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 <u>Use and maintenance</u> <u>manual of the machine</u>

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.

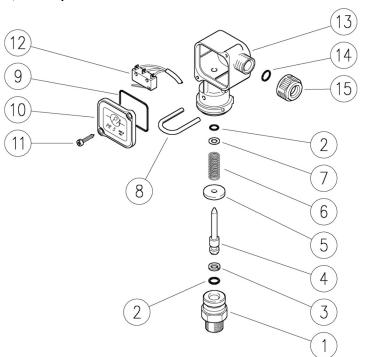
Maintenance has to be carried out by Specialized Technicians

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



Pos.	P/N Description	Q.ty K1K2K3K4	F	Pos. P/N	Description	Q.ty	K1	K2K	(3K4	4 🔳
1	29.0081.31 Housing, 1/4M Bsp brass	1 !	5	8 29.0087.51	U-bolt, Sst.	1				10
1	29.0091.31 Housing -PR5, 1/8M Bsp brass (1)	1 :	3	9 10.3206.01	O-ring, 2,62x28,25 mm	1	•			10
1	29.0044.31 Housing, 3/8M Bsp brass (2)	1	5	10 29.0088.84	Lid, PR5 PA black	1				10
2	10.3038.00 O-ring, 1,78x3,68 mm	2 • 1	0	11 16.3020.00	S/tapp. screw, 2,5x12mm chrom	2				10
3	10.4002.00 Back-up ring, opn. 4,2x7x1,5 mm	1 • 1	0	12 12.5006.00	Cable, 3x0,75 L.1000 mm+ Microswitch	1				5
4	29.0090.31 Piston -PR5, brass	1 !	5	13 29.0089.84	Housing, PR5 PA black	1				10
5	29.0086.31 Washer, 4x16x2,5 mm brass	1 1	0	14 10.3169.00	O-ring, 2,62x6,02 mm	1	•			10
6	29.0085.61 Spring, 25Bar-1,4x8x18 mm (3)	1 1	0	15 29.0082.84	Locknut for cable gland, PA black	1				10
6	29.0084.61 Spring, 40Bar-1,6x8x18 mm (4)	1 1	0	15 29.0109.84	Locknut for cable gland, PA red	1				10
6	29.0094.51 Spring, 15Bar 1,3x6,7x18mm Sst. (5)	1 1	0	15 29.0110.84	Locknut for cable gland, PA blue	1				50
6	29.0112.51 Spring, 1,2x8x18 mm Sst. (1)	1 1	0	15 29.0111.84	Locknut for cable gland, PA yellow (1)	1				10
7	14.3519.00 Washer, 4x8x0,5 mm brass	1 1	0							
Kit	P/N Description									
K1	29.0095.24 Spares kit - PR5, 5x10pcs.		1							

(1) 29.0080.75 (2) 29.0080.80 (3) 29.0080.00 (4) 29.0080.50 (5) 29.0080.10

NOTE	NOTES

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =