# Air treatment accessories: pressure switches



### DIGITAL/ANALOG PRESSURE SWITCH SERIES PRDA

This series of switches has been expressly designed for the pressure detection of a wide range of fluids with elevate accuracy and resolution. This series has both digital and/or analog outputs and an integrated display with a frontal interface including three buttons to programme different functions (all described in the documentation that goes with the item) among which:

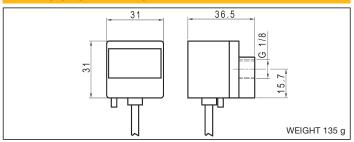
- setting the unit of measurement of the pressure;

- managing the outputs No.1 and No.2, depending on the set pressures. This pressure switch, thanks to the very compact dimensions and to the 3 1/2 digit led display, is a very versatile item and suitable for the majority of the applications with not corrosive and incombustible gases, and with air. It is supplied completed with front protection cover and panel mounting system type SFPR.

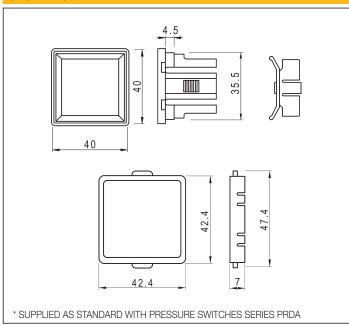
Т	E	C	Н	ΝI	CA	\L	D	ΔТ	Ά

Working temperature	0 ÷ +50 °C			
Operating/setting pressure	-1 ÷ 10 bar (0 ÷ 10 bar recommended)			
Power supply voltage	DC: 12 ÷ 24 V ± 10%			
Fluid	Air; not corrosive and incombustible gases			
Max. load current	80 mA			
Average current consumption	55 mA			
Protection class	IP 50			
Response time	< 2.5 ms			
Display accuracy	<± 2% F.S. $\pm$ 1 digit with ambient temperature of 25 $\pm$ 3 °C			
Analog output	$1 \div 5 \text{ V} < \pm 2.5\%$			
Linearity analog output	± 1% F.S.			
Display resolution	3 ½ digit 7 segments LED (sampling frequency: 5 Hz)			
Switch output	PNP; (NPN on request)			
Unit of measurement	kPa, MPa, Bar, Psi			
Hysteresis	Manually adjustable between the 1 to 10%			
	of the rated pressure, or automatically arranged			
	approximately to the 3% F.S.			

# **DIMENSIONS AND WEIGHT - PRDA**



# PROTECTION COVER AND PANEL MOUNTING SYSTEM SFPR\*

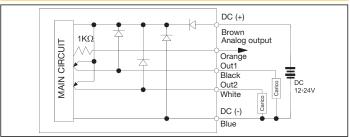




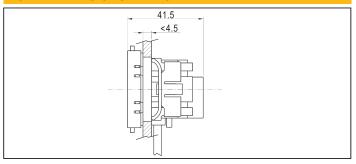
# **MATERIALS**

Parts in contact with measured fluid	Carbon steel
Lead wire	5-conductors oil-proof cable
Electric connections	Brown: DC +
	Blue: DC -
	Black: OUT 1
	White: OUT 2
	Orange: Analog output

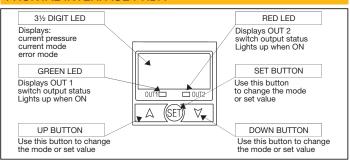
# INTERNAL CIRCUIT AND WIRING - PNP



# TOTAL DIMENSIONS WITH SFPR



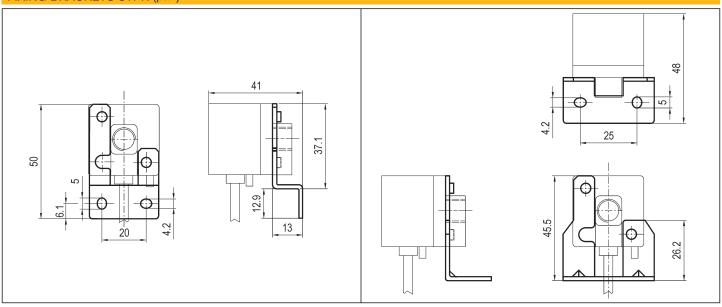
### FRONTAL INTERFACE PRDA





# series PR

# FIXING BRACKETS STPR (pair)

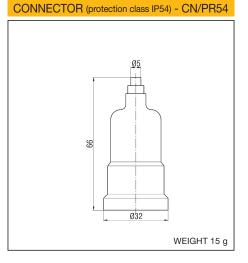


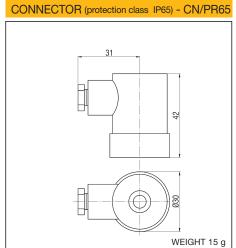
# DIAPHRAGM PRESSURE SWITCH SERIES PRC-PRA

TECHNICAL DATA					
Max. switched voltage	48 V AC - DC				
Max. switched current	0,5 A				
Max. fluid temperature	80 ÷ 120 °C				
Adjusting range	1 ÷ 10 bar				
Static overpressure	80 bar				
Tolerance at 20 °C	0,5 bar				
Hysteresis	6 ÷ 10% of setting value				
Max. number of insertions	200 per minute				

MATERIALS	
Body	Brass
Diaphragm	FPM (Viton®)
Fixed contact	Silver
Moving contact	Phosphorous bronze with silver contact

# PRC - PRA





Symbol N.C.	Size	L1	L2	TYPE
	G 1/8	10	51	PRC8
	G 1/4	12	53	PRC4

Symbol N.O.	Size	L1	L2	TYPE
المراث الم	G 1/8	10	51	PRA8
[M	G 1/4	12	53	PRA4

# Air treatment accessories: pressure switches

Connector (included)

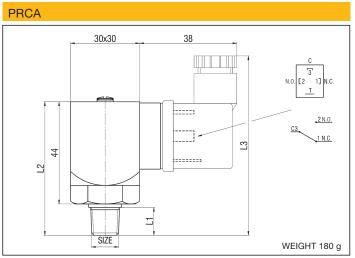


# CONTACTS EXCHANGE PRESSURE SWITCH SERIES PRCA

### **TECHNICAL DATA** Max. switched voltage 250 V AC; 30 V DC Max. switched current 5 A in AC; 4 A in DC 100 °C Max. fluid temperature IP 65 Protection class 0,5 ÷ 10 bar Adjusting range Static overpressure 150 bar Tolerance at 20 °C 0,2 bar 15 ÷ 30% of setting value Hysteresis Max. number of insertions 200 per minute

# MATERIALS Body Passivated steel Electric box Anodized aluminium alloy Diaphragm FPM (Viton®)

ULR4P



Symbol N.C. / N.O.	Size	L1	L2	L3	TYPE*
9° M	G 1/8	10	56	74	PRCA8
8	G 1/4	12	53	76	PRCA4

<sup>\*</sup> These switches can rotate of 360°