

REACTON ACCESSORIES

PRESSURE SWITCHES 1/8" BSP -RE5002,RE5003,RE5004,RE5010

COMPONENT DATASHEET

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[LPS 1666 Related]
[UL 753 Related]

Changes must be approved
and notified according to
COP-ISO0003

PRESSURE EQUIPMENT DIRECTIVE
(PED) 2014/68/EU
APPROVED



RoHS2 (2011/65/EU)
APPROVED

TR CU EMC
TR CU Low Voltage
APPROVED

Product Overview

The Reacton® Pressure Switches are designed using the well known and proven and high vibration resistant diaphragm or piston technology. As suitable for air, nitrogen and neutral or self-lubricating fluids & gases.

Key Features

- Black Epoxy sealed with 200mm cable
- Lightweight around 100g in total gross
- Standard G1/8 Parallel Thread.
- NBR or EPDM Sealing
- High Reproducibility
- Compact Design
- IP67
- Long service life
- Change-over Contact for either N/O or N/C (Not to be used simultaneously)

Common Applications

- Heavy Duty Mobile Vehicles
- Buses and Coaches
- Power Generators
- Wind Turbines
- Sports Racing Cars or Boats
- Commercial Boats & Yachts

Reacton Cylinder Compatibility

- Dry Powder
- Wet Chemical
- Clean Agent
- Water
- Inert Gas

Mechanical Data

Material:	Galvanised High Grade Steel
Finish:	Natural/Plated
Marking:	Technical Label
Weight:	0.08kg (Wired)
Electrical Connections:	200mm - 3 core cable
Mechanical Connections:	1/8" BSPP (Main Connection)

Functional & Environmental Data

	Min	Typical	Max
Operating Voltage:	5V AC/ DC	24V AC/ DC	48V AC/ DC
Power Rating:	5mA	1.5A	2A
Operating Pressure:	15.0 or 25.0 barg @ 20°C [217.5 or 362.6 psig @ 68°F]		
Operating Temperature:	-30°C* to +100°C [-22°F* to + 212°F]		
Operations Cycles:	10 ⁶ Switching cycles		
Life Cycle:	10 Years		
Ingress Protection:	EN/IEC 60529 IP67		
Sealing:	Diaphragm: NBR or EPDM Piston: PTFE (Dynamic) and NBR, EPDM or Viron® (Static)		
Typical Switch Hysteresis:	0.58bar at 3bar to 3.5bar at 18bar Switching Point		

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Released Date: 17 JUN. 2022

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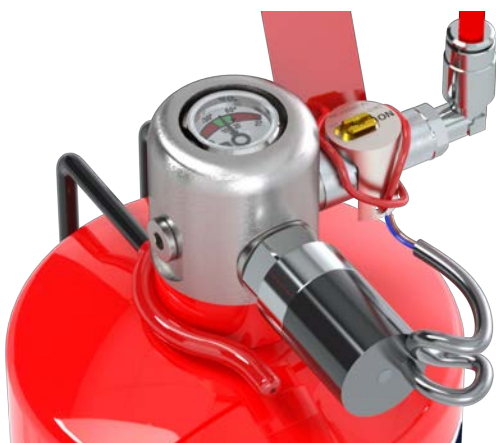
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Dimensions



*All dimensions in mm. The configuration shown in the above Figure is standard

Principle of Operation / Purpose of use



The Reacton® 1/8" BSP pressure switch is utilised where continuous monitoring of the system pressure is required, once the pressure goes past the pre-determined set point the contacts will transfer and allow for a signal to be sent to your required device.

The Reacton® 1/8" BSP pressure switch Pressure switches are principally designed for use in the valve head only.

Part Number RE5002, RE5003 & RE5004 - 9, 5 & 18 bar falling pressure switches shall be specified before ordering the system as they will come factory fitted to the CT or CTX Valve.

Part Number RE5010 3 bar rising pressure switch can be retrofitted on site. The use of the adapter Part Number RE6979 is required to connect the pressure switch to the valve port. This unit is then inserted in the valve port along with the correct application of liquid thread sealant to provide discharge confirmation.

All pressure switches are supplied with 200mm of 3 core cable. For connection details please see below:

- Normally Closed (N/C) Blue
- Normally Open (N/O) Brown
- Common (COM) Black

Part Numbers

RE5002	N/O&N/C 9Bar Falling, 1/8", 20cm Cable Switching Direction: Decreasing Pressure
RE5003	N/O&N/C 5Bar Falling, 1/8", 20cm Cable Switching Direction: Decreasing Pressure
RE5004	N/O&N/C 18 Bar Falling, 1/8", 20cm Cable Switching Direction: Decreasing Pressure
RE5010	N/O&N/C 3 Bar Rising, 1/8", 20cm Cable Switching Direction: Increasing Pressure



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Design Considerations

Please read the Reacton® installation manual for the equivalent Fire Suppression System you are installing for more details.

Typical Performance Data

Performance Data

Vibration Resistance:	10-2000Hz r.m.s. Acceleration value = 57.9m/s^2 32 h/axis 3 axes in total (96 hours) In accordance with ISO 16750-3:2007
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Shock Resistance:	30g with shock duration of 14ms In Accordance with DIN 40046
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Compatibility List

Reacton® Monitoring System
Reacton® CT Direct & CTX Indirect Systems

Warranty Validity & Precautions

The warranty is invalidated if the system or part is used under conditions other than those indicated in this datasheet or/and the product has been custom modified.

Stresses above the maximum limits indicated may cause permanent damage to the part or system. Exposure to absolute maximum rating conditions for extended periods may affect reliability that could compromise the system integrity and lead to loss of asset, serious injury or death.

Whilst Reacton has taken care to ensure the accuracy of the information contained herein it accepts no responsibility for the consequences of any use thereof and reserves the right to change the specification of goods without notice.

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