

Product overview

Designed mostly for water flow monitoring. The differential pressure switch closes or diverts an electric contact when the differential pressure between the two inlets reaches the upper setpoint and opens or releases the contact when it drops below the lower setpoint.

A typical application would be to mount differential pressure switch across the condenser vessel of a water source package air conditioning unit to prove water flow. When connected across a venturi it can be used to detect flow in almost any water based application.



Kit B



Kit A

Types available

Type code	Set Point	Switching Differential
EXT-TN-1100013	0.05 bar	0.02 bar
EXT-TN-1100021**	0.1 bar	0.02 bar
EXT-TN-1100022	0.2 bar	0.05 bar
EXT-TN-1100023**	0.25 bar	0.06 bar
EXT-TN-1100024**	0.3 bar	0.07 bar

** Available only upon request

Technical data

Standards	CE conformity	-2004/108/EG Electromagnetic compatibility
	EN conformity	-2000 /EN60730-1 Emitted Interference
General Data	Sensor Type	Passive
	Sensor Output	SPDT micro-switch (NO/NC)
	Safety Class	III to EN60730
	IP Rating	IP65 to IEC60529
	Measuring Range	Refer to Set Point
	Repeatability	±1 %
	Max. Over Pressure	5bar
	Max Static Pressure	20 bar
	Operating Temperature	-20°C...+70°C
	Operating Humidity	<85% r.h., no condensation
	Transport Temperature	-10°C...+70°C
	Transport Humidity	<90% r.h
	Storage Temperature	-10°C...+70°C
	Storage Humidity	<85% r.h., no condensation

Security advice

The installation and assembly of electrical equipment may only be performed by a skilled electrician.

The products must not be used in any relation with equipment that supports, directly or indirectly, human health, life or with applications that can results in danger for people, animals or real value.

Mounting advice

Do not try to open the brass shell in any case. Proper mounting position is important to the measuring accuracy, please mount in near the outlet or inlet of the heat exchanger. It is better to invert the switch or mount it above the inlet of the heat exchanger.

Installation Notes

The product must be installed at a suitable place and within the range of validity of the local electrical installation laws and regulations. The positive “+” should be connected to the high pressure connection (Inlet of the heat exchanger) and the “-” to the low pressure connection (Outlet of the heat exchanger).

Commissioning Notes

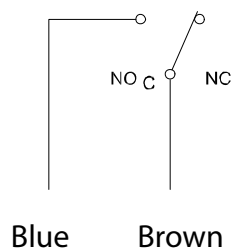
The pressure switch is factory-calibrated in the vertical position. If installed horizontally, the actual value is 20Pa higher than the set value.

The set value can be changed by adjusting the knob. Use a “-” screwdriver to adjust the switching differential.

To avoid pump cavitation make sure that the water system is properly filled and vented.

Electrical Information

Terminal Clamp	Screw Terminal, max. 2.5mm ²
Relay rating	AC250V, max.10A
Cable length	1m
Cable Diameter	2x0.75mm ² ,105°C
Cable Entry	M16, Ø6...Ø8mm cables
Connection Thread	G ¼" male thread
Sensing Element Position	Inside the housing
Housing Cover	Black ABS, RAL9017 (TRaffic Black)
Housing Bottom	Brass
Diaphragm	EPDM
Cable Gland	Black PP, RAL9017 (TRaffic Black)

Terminal connection plan

Dimensions (mm)
