



## **CLOGGING INDICATORS**

Visual and electrical indicators

#### INDICATORS FOR APPLICATION ON SUCTION LINE

NORMALLY USED ON FS7 / FA1 series (suction line)

The clogging indicator registers the pressure downstream the filter element:

- in the VISUAL indicator the red area shows the need for element replacement.
- in the ELECTRIC indicator an electrical switch is activated.

S1

VACUUM GAUGE
0÷-1 bar

VACUUM SWITCH
-0,2 bar

**S13** 



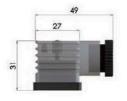
**⊙** 10 Nm

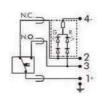
• 3 N.O.

- DC: 30 V 4 A inductive, 3 A resistive
- AC: 250 V 3 A inductive, 2 A resistive
- Protection: IP65, connector DIN43650
- SPDT contacts

#### **OPTIONAL CONNECTOR for S13**

LC24





The LC24 connector can replace the standard black connector of the "S13" indicator (N.B. supplied separately).

Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.



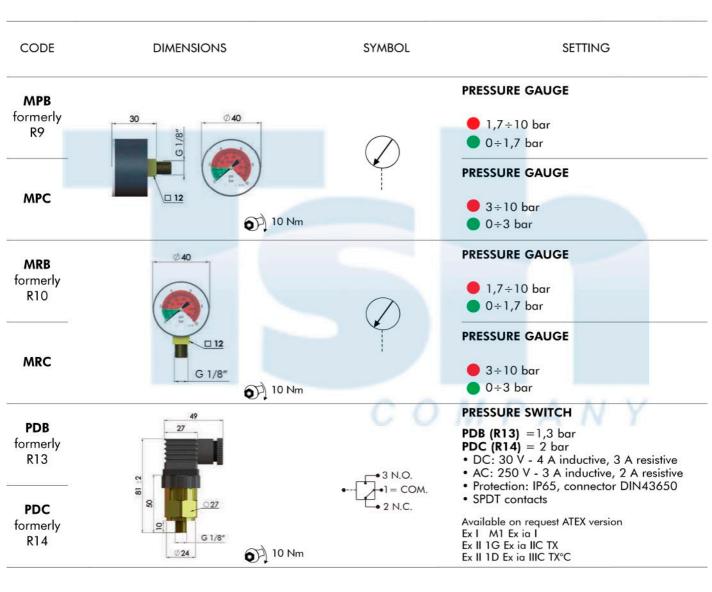


### INDICATORS FOR APPLICATION ON RETURN LINE

### NORMALLY USED ON FA1 (return line) / FA2 / FR1 / FR6 / FCR7

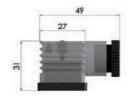
The clogging indicator registers the pressure upstream the filter element:

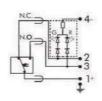
- in the VISUAL indicator the red area shows the need for element replacement.
- in the ELECTRIC indicator an electrical switch is activated.



## OPTIONAL CONNECTOR for PDB\_PDC







The LC24 connector can replace the standard black connector of the "PDB / PDC" indicator (N.B. supplied separately).

Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.



## INDICATORS MULTIPURPOSE FOR APPLICATION ON SUCTION AND RETURN LINE

CAN BE USED ON FS7 / FA1 (suction line) OR FA1 (return line) / FA2 / FR1 / FR6 / FCR7 CODE **DIMENSIONS** SYMBOL **SETTING** Ø40 PRESSURE / VACUUM GAUGE **R7** -1 ÷-0,2 bar 6 10 Nm -0,2÷1,4 bar 1,4÷5 bar INDICATORS FOR APPLICATION ON LOW PRESSURE LINE NORMALLY USED ON FA1 (low pressure line) series CODE DIMENSIONS SYMBOL SETTING Ø40 PRESSURE GAUGE **R12** 0 ÷ 16 bar 10 Nm



#### DIFFERENTIAL CLOGGING INDICATORS

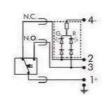
V02 / E02 NORMALLY USED ON F040 series V05 / E05 NORMALLY USED ON F040 / F100 / F160 / F280 / F420 series V08 / E08 NORMALLY USED ON F100/ F160 / F280 / F420 series CODE **DIMENSIONS** SYMBOL **SETTING DIFFERENTIAL VISUAL** V02 2,7 bar **DIFFERENTIAL VISUAL** V05 M20 x 1,5 **DIFFERENTIAL VISUAL V08** 8 bar 50 Nm CODE DIMENSIONS SYMBOL SETTING **DIFFERENTIAL** E02 **ELECTRIC** 2,7 bar Electric plug connection as per DIN 43650 · Protection: DIFFERENTIAL IP65 acc. to DIN 40050 • Max current: 5A resistive E05 **ELECTRIC** 5 bar 1A inductive

### **OPTIONAL CONNECTOR for E serie**

M20 x 1,5



**E08** 



The LC24 connector can replace the standard black connector of the "E" indicator (N.B.supplied separately).

Max voltage:

DIFFERENTIAL

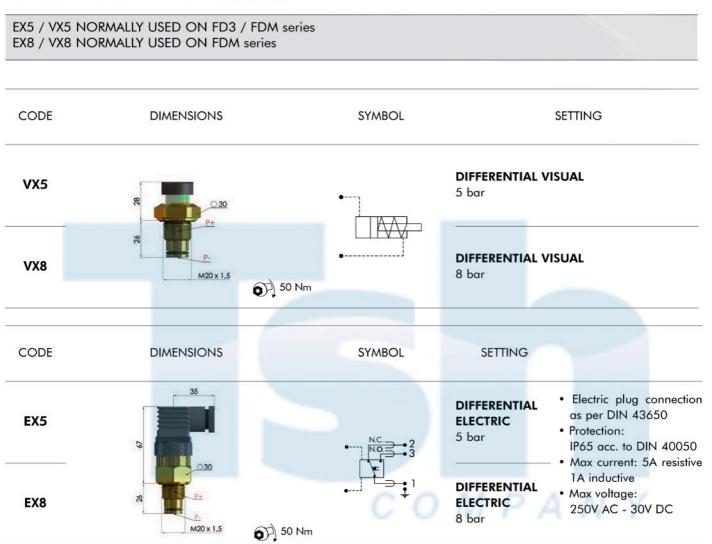
ELECTRIC 8 bar 250V AC - 30V DC

Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.

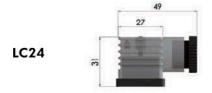
50 Nm

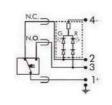


#### **DIFFERENTIAL CLOGGING INDICATORS**



#### **OPTIONAL CONNECTOR for E serie**





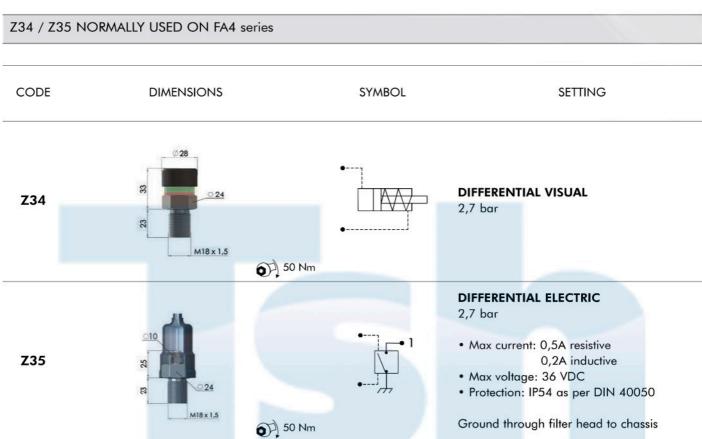
The LC24 connector can replace the standard black connector of the "E" indicator. (N.B. supplied separately)

Feeded with 24V, it gives a visual indication of the filter element conditions: normally the GREEN LED is on, the RED LED switch on when the element is clogged.



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#### **DIFFERENTIAL CLOGGING INDICATORS**



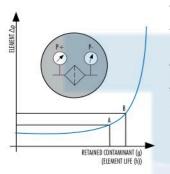


#### **USER INFORMATION**

The Pressure indicator measures the pressure in one point only:

- -for suction application it must be located downstream the filter element (P-)
- -for return application it must be located upstream the filter element (P+)

The **Differential indicator** measures the Dp between upstream and downstream of the filter element, i.e. it is the ideal indicator for in line application.



The **Pressure Drop** (Dp = differential pressure) through the filter increases during the system operation due to the contaminant retained by the filter element.

The filter element must be replaced when the indicator shows an alarm and before the Dp reaches the by-pass set value (i.e. the set value A of the clogging indicator must always be lower that the set value B of the by-pass valve).

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**WARNING:** in **cold start** conditions a false alarm can be caused by higher oil viscosity due to low temperature; the indicator alarm must be considered at normal working temperature only.

### **OPTIONAL VERSIONS**

Subject to MOQ our differential indicators can be supplied in special versions like ATEX, different connectors, two alarm levels, etc.: pls contact our Customer Service for further information.

