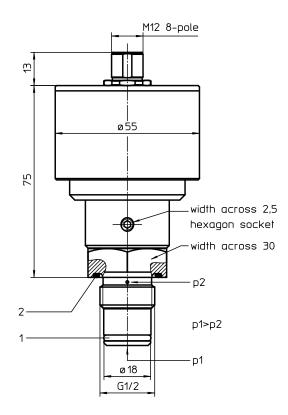
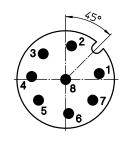
# Sheet No 1619 E

# ELECTRONICAL CLOGGING INDICATOR

Series VS5 (thread execution)



### Configuration of M12 connector at VS5



### **Connection configuration**

- 1 GND/0V
- 24VDC current supply 2
- 24V PNP at Δp 75% 3
- 24V PNP at Δp 100%
- 5 6...20 mA
- **⊕**PE 6
- 7 reserve not connected
- 8 reserve not connected

# 3. Spare parts:

item	qty.	designation	dimension	article-no.	
1	1	O-ring	14 x 2	304342 (NBR)	304722 (FPM)
2	1	O-ring	22 x 2	304708 (NBR)	304721 (FPM)

## 1. Type index: (ordering example)

**VS5. 1,5. V. -. NO. CS. -. -**1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

1 series:

VS5 = electronical clogging indicator with analog

output 6...20mA and

2x PNP-switching contacts (75% and 100%)

2 indicator-pressure difference: Δp-nominal

= 1,5 bar 5.0 = 5.0 bar

2,5 = 2,5 bar 6.0 = 6.0 bar

sealing material:

= Nitrile (NBR), = Viton (FPM)

material: (screw-in-housing)

= standard (aluminium)

= stainless steel

5 contact:

NO = normally opened

NC = normally closed

6 cold start:

CS = with cold start suppression up to 25 ±3°C

without cold start suppression

7 execution:

= standard

8 connection:

= without

GS5 = M12, 8-pole female connector

SS5 = M12, 8-pol. female connector with 5m cable and

3 installed LED's red/yellow/green

(only in combination with contact "NO = normally opened")

### 2. Technical data:

max. operating pressure:

420 bar (stainless steel) 220 bar (aluminium)

max. pressure difference: operating temperature:

error of measurement:

operating ability:

starting torque:

160 bar - 40°C...+80°C

temperature range of fluid:

- 25°C...+ 100°C (NBR)

- 10°C...+ 100°C (FPM)

other temperature ranges on request sealing material:

NBR / FPM

further seals on request

power voltage: +24VDC ±20%

current consumption: approx... 25mA + current signal output

(measured with 24VDC) output signal:  $\Delta p$ : 6...20mA, max load: 400 $\Omega$ 5mA by cold start suppression

75% and 100% from  $\Delta p_{\text{nominal}}$  as 24VDC

 $\pm$  5% v.  $\Delta p_{nominal}$ 

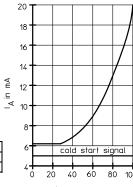
< 400mA at closed state

< 1mA at opened state

protection: IP65 (IP67 on request) fatigue strength:

max. 1 Mio load cycles for aluminium

100 Nm (stainless steel) 80 Nm (aluminium)



△ p-nominal in %

EDV 05/17

Changes of measures and design are subject to alteration!



Friedensstrasse 41, 68804 Altlussheim, Germany

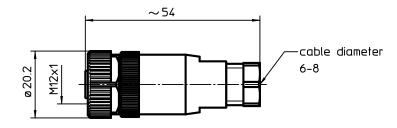
+49 (0)6205 2094-0 e-mail filtration@eaton.com fax +49 (0)6205 2094-40 url www.eaton.com/filtration

### 4. Functions:

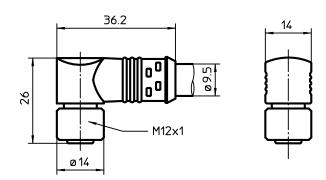
- continuous pressure difference measuring
- cold start indication up to approx. + 25°C
- suppression of pressure peaks
- dust-proof and splash-proof aluminium or stainless steel housing
- interference-free signal transmission over longer distances
- optimal utilization of the filter elements based on a high definition of the measure value within the final measure range
- interchangeable with clogging indicator type AE

### 5. Connection:

GS5 = M12, 8-pole female connector (article-no. 345742) temperature range: -40°C ... +80°C



SS5 = M12, 8-pole female connector with 5m cable and 3 installed LED's red/yellow/green (article-no. 347370) temperature range: -25°C ... +80°C



#### **Connection configuration**

WH 1	SND/0V
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ΒN 24VDC current supply

24V PNP at Δp 75% GΝ

24V PNP at  $\Delta$ p 100% YΕ

6...20 mA GΥ

**PE** 

ΒU 7 reserve not connected

RD reserve not connected

## 6. Accessories for replacing VS1/VS2 by VS5: (To use the previous connector)

The following adapters are available:

- Article No.: 347425, description: GSA1: for replacing VS1 of executions according to data sheet: 44522 / 60551 / 1617 - Article No.: 350639, description: GSA1-X: for replacing VS1 of executions according to data sheet: 49211 / 44368 / 43477

- Article No.: 347428, description: GSA2: for replacing VS2

