motralec Danfoss Pressure transmitter SIL 2 DST P92S PLd EN ISO 13849 1· DEMANDE DE PRIX >
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ENGINEERING TOMORROW

Data sheet

Pressure transmitter SIL-2
DST P92S



The DST P92S OEM pressure transmitter is designed for use in Mobile and Industrial hydraulic applications.

The transmitter is suitable for use in a functional safety environment with a requirement of PLd, EN ISO 13849-1: 2015 or AgPLd EN ISO 25119: 2010 or SIL2, IEC 61508:2010, respectively.

Further Danfoss holds a third party approval from TÜV to ensure easy implementation into any safety system.

Features

- Designed for use in severe hydraulic applications
- For operating temperature up to 85 °C
- Pressure range 0-10 bar to 0-1200 bar
- Dual output signal: 4-20 / 20 -4 mA or ratiometric 10-90 / 90-10%
- Cyclic diagnostic
- Start up diagnostic
- Wetted parts made of stainless steel
- Designed towards OEM requirements

Conformity

- PLd EN ISO 13849-1: 2015
- AgPLd EN ISO 25119 :2010
- SIL2 IEC 61508: 2010
- CE marked
- ECE type approval

Note: In respect to Customer Change Notification, only changes in relation to Form Fit and Function can be informed upon!

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Technical data

Accuracy (incl. non linearity, hysteresis and repeatability)	< 0.5% FS [1])
Overall accuracy under reference conditions	+/- 1% FS [0 – 85 °c] +/- 1,5% FS [-25 – 0 °c] +/- 2,5% FS [-40 – -25 °c]
Long-run stability	<0,2% FS p.a.
Response time liquids (10 – 90%)	2 ms

[1]) *1, Load 100 Ω, temperature in steady state, accuracy valid for output 1 for 4 – 20 mA*

Overload and burst pressure

Standard pressure [bar]	40	60	100	160	250	400	600
Overload pressure [bar]	80	120	200	320	500	800	1200
Burst pressure [bar]	400	600	1000	1600	2500	4000	>4000

Environmental conditions

Media temperature range		-40 – 125 °C
Operating temperature range		-40 – 85 °C
Storage temperature range		-40 – 100 °C
Voltage supply		9 – 32 V DC, alloable ripple @50Hz: 10% (for current output) 5V ±10% (for ratiometric voltage output)
Electrical Protection		Short circuit protected, signal on GND/VCC and reverse polarity protection
Electric Magnetic Compatibility Directive [EMC]		2014/30/EU
EMC		DIN EN 61326-1 DIN EN 61326-2-3 DIN EN 61326-3-1 E1 type approval: All vehicle types with a 12 V or 24 V - electrical wiring and battery (-) at the body
Vibration stability	20 g	EN60068-2-6
Shock mechanical	500 g	EN60068-2-27
Enclosure		1.4301/ PBT-GF30
Material with medium contact		1.4548/Viton
Weight		50 g
Enclosure		IP67

Functional safety

Machinery Directive [MD]	2006/42/EC	
IEC 61508:2010	SIL 2	Safety related subsystem, type B
	1oo1 architecture	SFF 95.8% 4-20mA / 93,1% ratiometric (incl. control unit)
	HFT 0	PFH $6.1*10^{-9}$ (4-20 mA) / $4.9*10^{-9}$ (ratiometric)
EN ISO 13849-1:2015	PL d	CCF 70 points
	Category 2	$MTTF_d$ high >100 years
	DC medium (incl. control unit)	
Safety function	Safety conversion of the measured pressure into two proportional opposing current signals. Refer also to the Safety guide.	

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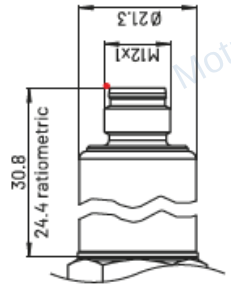
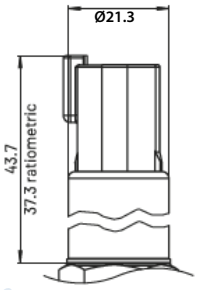
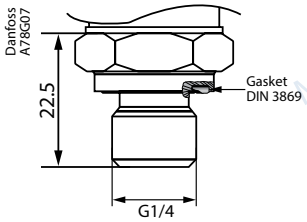
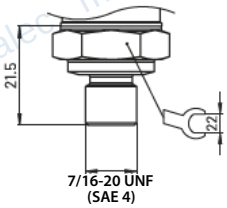
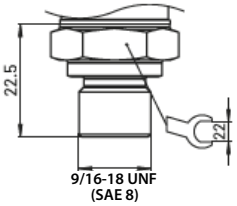
Ordering

Available code numbers

Type	Measuring range	Pressure connection	Electrical connection	Electrical output	Code no
DST P92S	0 – 40 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1000**
DST P92S	0 – 60 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1001**
DST P92S	0 – 100 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1002**
DST P92S	0 – 160 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1003**
DST P92S	0 – 250 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1004**
DST P92S	0 – 400 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1005**
DST P92S	0 – 600 bar	G1/4 DIN 3852-E	M12	4-20mA / 20-4mA	**078G1006**

For other requests please see below and/or contact Danfoss.

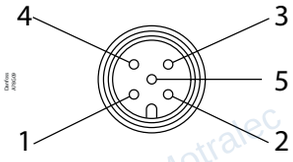
Dimensions

Electrical connection	**M12x1, 5-pole PBT**		**DT04-4p, 4-pole PBT**
			
Pressure connection	**G¼ DIN3852-E Viton gasket**	**7/16 - 20 UNF**	**9/16 - 18 UNF**
			
Recommended torque	**Max. 35 Nm**		

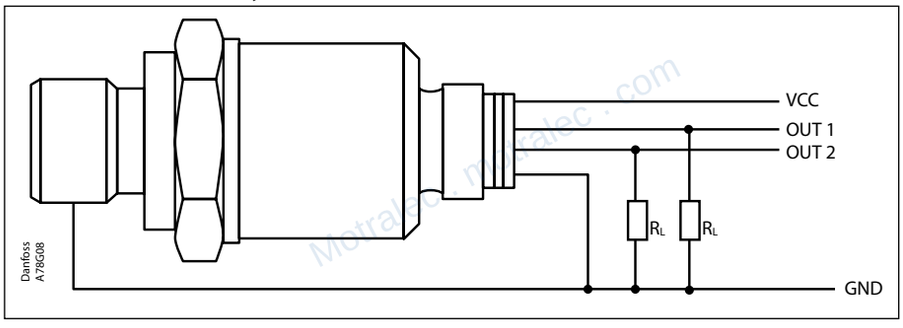
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Electrical connections

	M12x1, 5-pole PBT	DT04-4p, 4-pole PBT
Pin Configurations		
Enclosure (IP protection fulfilled together with mating connector)	IP67	IP67
Material	PBT	PBT
Electrical connections 4 - 20 mA/20 - 4 mA (3 wire)	Pin 1: VCC Pin 2: Output 2 [20 – 4 mA] Pin 3: GND Pin 4: Output 1 [4 – 20 mA] Pin 5: Do not connect	Pin 1: VCC Pin 2: GND Pin 3: Output 2 [20 – 4 mA] Pin 4: Output 1 [4 – 20 mA]
Electrical connections 10-90 / 90-10% ratiometric	Pin 1: VCC Pin 2: Output 2 [90 – 10%] Pin 3: GND Pin 4: Output 1 [10 – 90%] Pin 5: Do not connect	Pin 1: VCC Pin 2: GND Pin 3: Output 2 [90 –10% VCC] Pin 4: Output 1 [10 – 90% VCC]

Recommended terminal layout



For detailed load reference please refer to the Safety guide.

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