

DST400 Overview

 Programmable
by RFID /NFC
No wiring required!



Pressure switch-transmitter-display / all-in-one

Analogue output mA / V

2x PNP digital alarm outputs

Rescalable till 1:2 full scale

Display and electrical connection are independently rotatable 335° / 343°

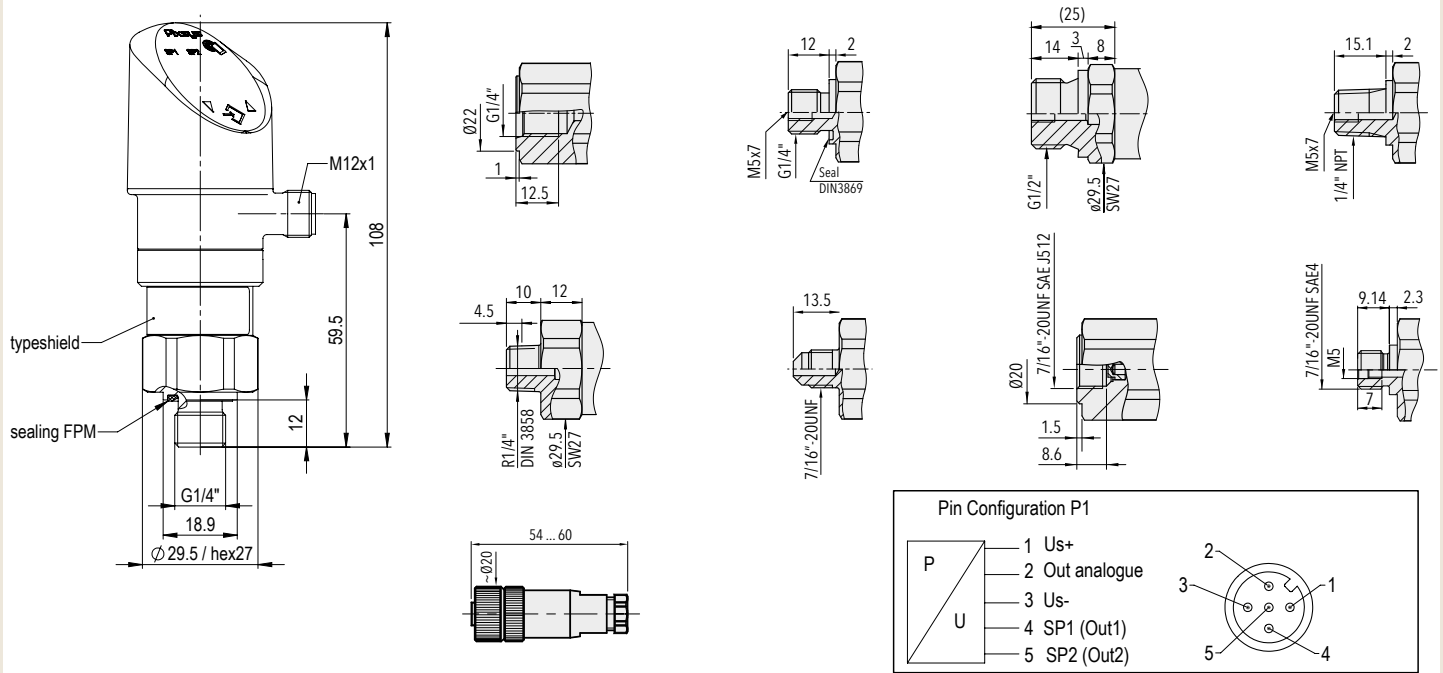
Pixsys srl

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Dimensions - Process Connection



Main features

Box	93 x 37 mm
Power supply	15..30 VDC
Power consumption	Max 0,8 W
Operating conditions	Temperature -25..+85 °C, humidity 35..95 RH%
Material	Sensor housing steel galvanised, display housing plastic
Weight	Approx. 189 g
Sealing	IP65 - FPM, NBR, EPDM


Technical data

Measuring range	0..1 to 0..400 Bar adjustable 50..100% F.S.
Sensor type	Thick film on Ceramic (0..100 Bar) - Thin film on steel (> 100 Bar)
Pressure connection	G1/4"
Electric connection	5 Pole Male M12x1
Housing orientation	Display 335° rotatable - Electrical connection 343° rotatable
Sensor working temperature	- 25..+ 85°C
Accuracy	± 0,5% F.S. @25°C

Outputs

2 digital	Transistor PNP max 500 mA
1 analogue	Selectable 4..20 mA / 0..10 V

Software features

Analogue output	Switchable mA or V
Display	4 Digit 1..3 decimal points
Pressure unit	Selectable Bar, Psi, MPa, kPa, m WC, mm WC
Datalogger	Ring buffer: 3518 data points - Sampling time: 0.1 ... 999.9 s, Off (0)
Quick set-up options	Programming via APP (NFC) for Android smartphones 

Ordering codes

2000.42.122	DST400 - Range -1.0 Bar / Ceramic / Out 4..20 mA - 0..10 V
2000.42.100	DST400 - Range 0.1 Bar / Ceramic / Out 4..20 mA - 0..10 V
2000.42.104	DST400 - Range 0..10 Bar / Ceramic / Out 4..20 mA - 0..10 V
2000.42.106	DST400 - Range 0..25 Bar / Ceramic / Out 4..20 mA - 0..10 V
2000.42.107	DST400 - Range 0..40 Bar / Ceramic / Out 4..20 mA - 0..10 V
2000.42.108	DST400 - Range 0..100 Bar / Ceramic / Out 4..20 mA - 0..10 V
2000.43.111	DST400 - Range 0..400 Bar / Thin film on steel / Out 4..20 mA - 0..10 V

Pixsys Pressure Sensor

Safety standards

Carefully read the instructions and safety measures in this manual before using the device. Disconnect power before performing any interventions on the electrical connections or hardware settings. Only qualified personnel may use/perform maintenance in full respect of the technical data and declared environmental conditions. Do not dispose of electrical appliances together with household waste. In compliance with the European Directive 2002/96/EC, waste electrical equipment must be collected separately for eco-compatible reuse or recycling.

1 Technical specifications


Accuracy	± 0.3% F.S.
Operating temperature	- 25°C ... +85°C

Media temperature	ECT:	- 25°C ... + 125°C
	ECT 400 bar / 5000 psi:	- 10°C ... + 125°C

2 Ordering codes

Item code	Description	Item code	Description	Item code	Description	Item code	Description
2000.40.088	0...100 mbar	2000.40.122	-1.0...0 bar	2000.40.102	0...4 bar	2000.40.106	0...25 bar
2000.40.089	0...200 mbar	2000.40.119	-1.0...3 bar	2000.40.103	0...6 bar	2000.40.107	0...40 bar
2000.40.090	0...400 mbar	2000.40.100	0...1 bar	2000.40.104	0...10 bar	2000.40.108	0...100 bar
2000.40.091	0...600 mbar	2000.40.101	0...2.5 bar	2000.40.105	0...16 bar	2000.40.110	0...250 bar

3 Type label description (example 10 bar model)






1 2000.40.104

P021399999999

2 0...10 bar PRESSURE TRANSM.
RELATIVE, - OUT 4...20 mA
G 1/4" - ACCURACY +/-0.3%
DIN 43650-A Pin2(+) Pin1(-)

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1 Item code

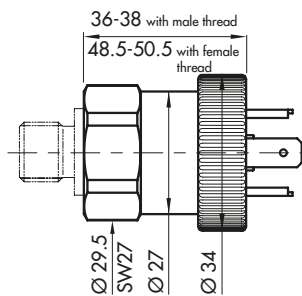
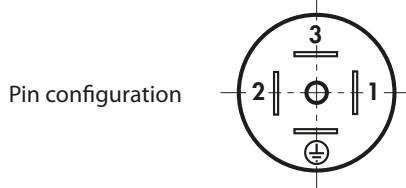
2 Measuring range

3 Option description

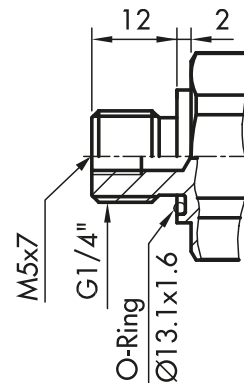
4 Electrical connections

Output	Load resistance	I _{SUPPLY}	U _{SUPPLY}
4 ... 20 mA	(USupply-9V)/ 20mA		9 ... 30 VDC

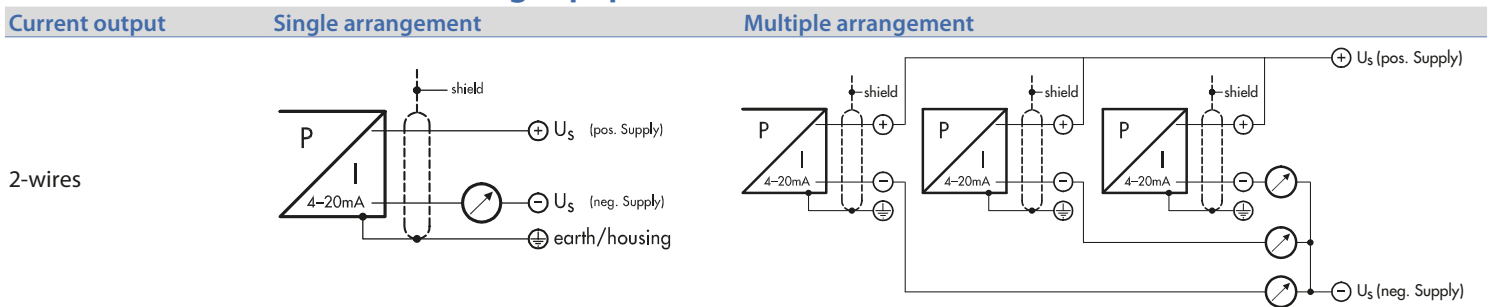
Features	
Input Protection	IP65
Designation	Industrial Standard contact distance 9.4 mm
Type code	2000.40.XXX



4.1 Pressure connection



4.2 Connection of the measuring equipment



Pixsys pressure sensor (Flush Membrane Transmitter)

Safety standards

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1 Technical specifications


Accuracy	± 0.5% F.S.
Operating temperature	-40°C ... +85°C
Media temperature	-40°C ... +125°C

Sealing temperature range	FTP:	-15°C ... +125°C mat. FPM (FKM)
	FTP:	-25°C ... +100°C mat. NBR (FKM)

2 Ordering codes

Item code	Description	Item code	Description	Item code	Description	Item code	Description
2000.40.138	0...1 bar	2000.40.139	0...4 bar	2000.40.141	0...10 bar	2000.40.148	0...40 bar
2000.40.153	0...2,5 bar	2000.40.140	0...6 bar	2000.40.144	0...25 bar	2000.40.143	0...100 bar

3 Type label description (example 10 bar model)



1 2000.40.141


P021399999999

2 0...10 bar FLUSH MEMB. TRANS. RELATIVE, - OUT 4...20 mA

G 1/2" - ACCURACY +/-0.5%

DIN 43650-A Pin2(+) Pin1(-)

MADE IN SWITZERLAND



3

1 Item code

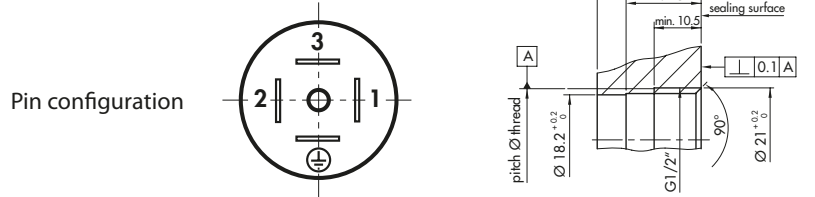
2 Measuring range

3 Option description

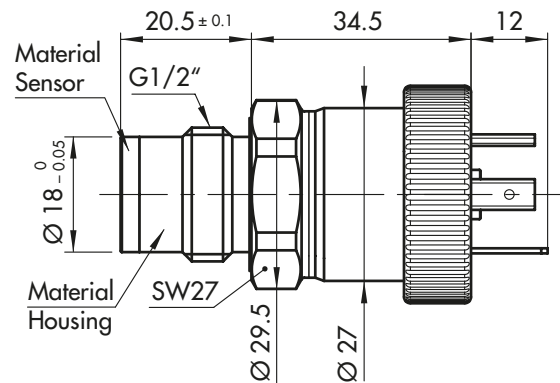
4 Electrical connections

Output	Load resistance	I _{SUPPLY}	U _{SUPPLY}
4 ... 20 mA	(U _{Supply} -9V) / 20mA		9 ... 30 VDC

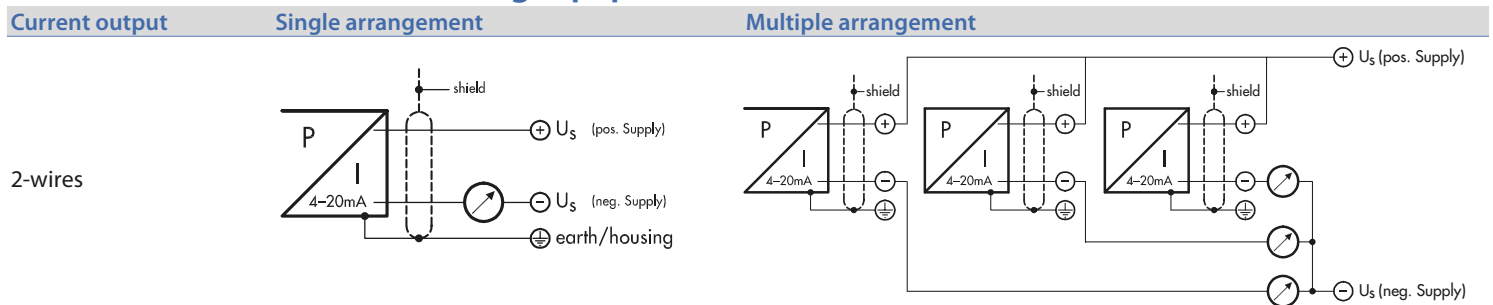
Features	
Input Protection	IP65
Designation	Industrial Standard
Type code	2000.40.XXX



4.1 Pressure connection



4.2 Connection of the measuring equipment



Pixsys pressure sensor (Submersible)

Safety standards

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1 Technical specifications


Accuracy	± 0.5% F.S.
Operating and media temperature	- 10°C ... +70°C

Storage temperature	ECL:	- 40°C ... +80°C
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2 Ordering codes

Item code	Description	Item code	Description	Item code	Description	Item code	Description
2000.40.149	0...200 mbar	2000.40.150	0...400 mbar	2000.40.152	0...600 mbar	2000.40.147	0...10 bar
2000.40.160	0...300 mbar	2000.40.151	0...500 mbar	2000.40.155	0...1 bar		

3 Type label description (example 4...mH2O model)



1 2000.40.150



P0213999999999


2 4 mH2O SUBMERSIBLE PRESSURE
TRANSM - OUT 4...20 mA

Female M10x1 - Cable PUR 10

3 ACCURACY +/-0.5%

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1 Item code

2 Measuring range

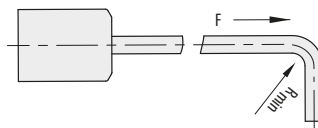
3 Option description

4 Electrical connections

Output	Load resistance	I _{SUPPLY}	U _{SUPPLY}
4 ... 20 mA	(U _{Supply} -9V) / 20mA		24 (9..30) VDC

Features

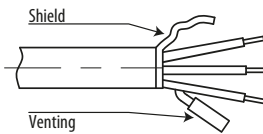
Input Protection IP65



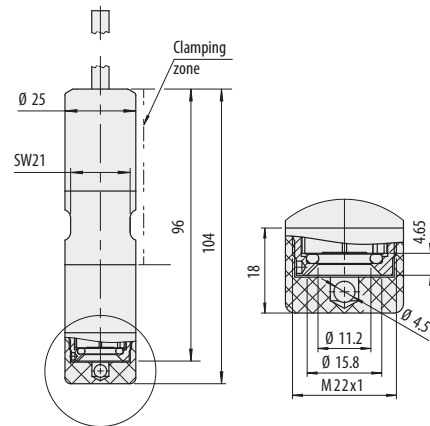
Type code 2000.40.XXX

F = max. 12kg (120 N)
Min. cable bending radius R_{min}:
Electrical connection:
- 2X (PUR): 40 mm;
- 3X (Radox): 60 mm;
- 4X (PE): 30 mm

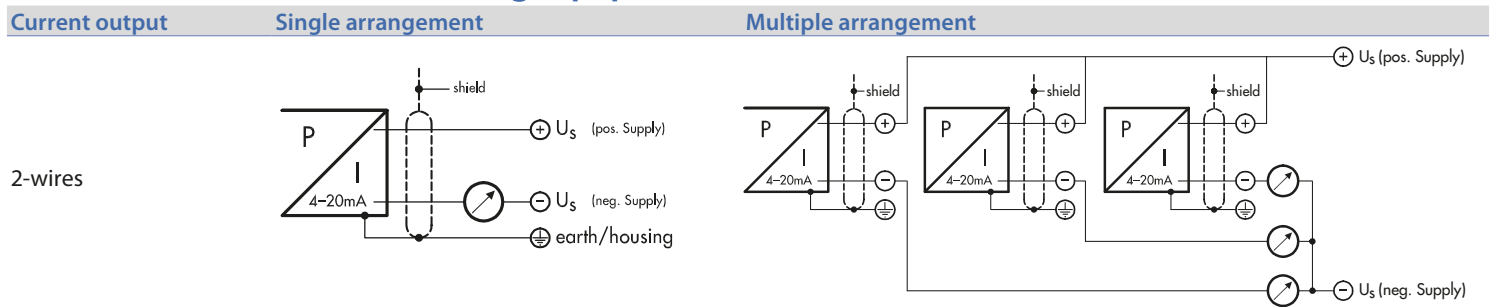
Pin configuration



4.1 Pressure connection



4.2 Connection of the measuring equipment



Further details on
www.pixsys.net