

DATA SHEET | ENGLISH



Industry 4.0 ready IO-Link sensor with TFT touch screen and a new, innovative operating concept.

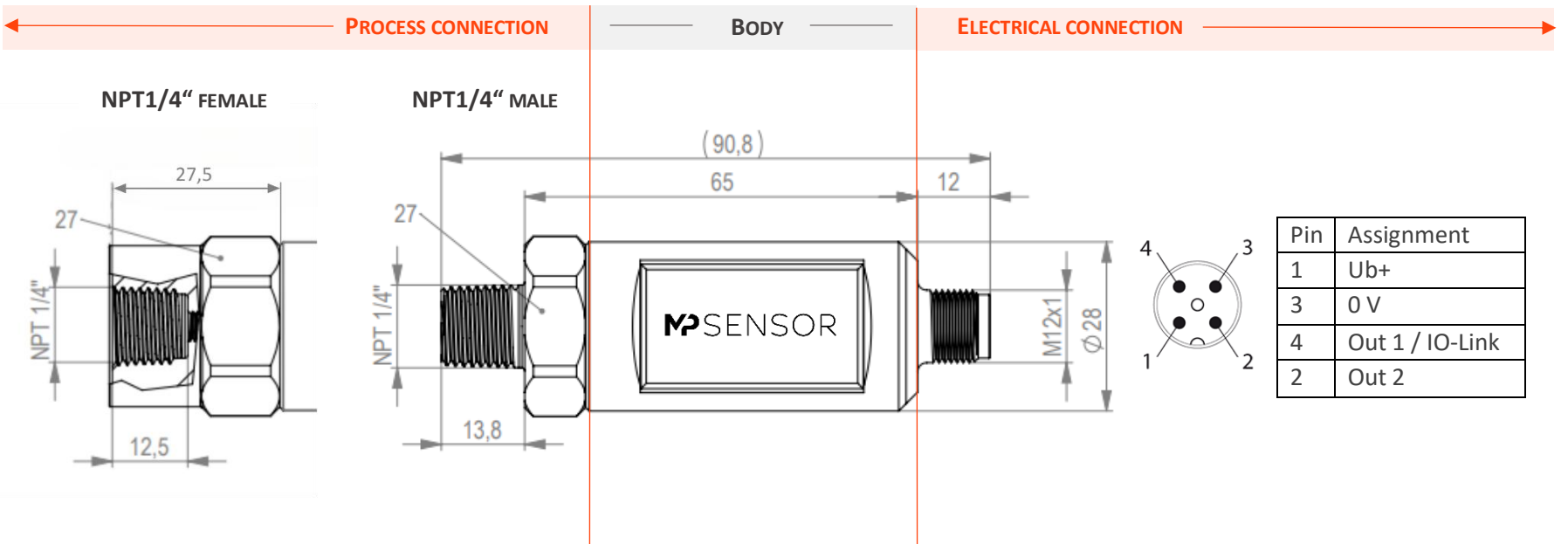
Ultra-compact design for use in the tightest of spaces.

Fully configurable outputs (switching output / analog / IO-Link).

Extended display and diagnostics options through 160x80px display.

Virtual, dual scroll wheel.





General data			
Display	0,96" TFT touch display, breakproof installation		
Switching status display	1x color indication per OUT		
IO-Link status display	color display		
Protection class rating	IP65 / IP67 / IP68		
Protection level	III		
Expected lifetime	100 Mio. load changes		
Pressure type	relative pressure		
Measuring cell type	ceramic		
MTTF (40°C)	478 years (continuous operation)		
Ordering information			
5 - 11 - <u>X</u> 1 3 <u>X</u> - <u>XXX</u> <u>X</u> <u>XX</u>			
<u>Process connection</u>		<u>Firmware</u>	
G1/4"M (male)	1	Standard	00
G1/4"F (female)	5	Customized	>00
NPT1/4"M (male)	3		
NPT1/4"F (female)	6		
<u>Sealings</u>		<u>Pressure range*</u>	
NBR (=standard)	1	-14.5...14.5	014 2
FKM	2	-14.5...30 psi	030 2
EPDM	3	-14.5...145	145 2
		0...50 psi	050 0
		0...100 psi	100 0
		0...200 psi	200 0
		0...300 psi	300 0
		0...500 psi	500 0
		0...1000 psi	1K0 0
		0...2000 psi	2K0 0

Electrical data	
Electrical connection	Connector M12x1, 4-pole
Operating voltage [Ub]	9...30 VDC (13...30 VDC for analog output) (UL: class 2 source only)
Current consumption	< 30 mA
Short-circuit / reverse polarity prot.	yes / yes
Output	
Out 1 (Pin 4)	PNP/NPN/PP or IO-Link
Out 2 (Pin 2)	PNP/NPN/PP or 0-10V / 1-10V / 4-20mA
Max. output current	max. 200 mA per output
Output voltage	Ub – 2.0V
Response time	< 3 ms
Accuracy	
Total accuracy (73.4°F)	± 0.5% FS (LP)
max. temp. error (-13°...+176°F)	± 1.5% FS (<1450 psi); ± 2.5% (≥1450 psi)
Long-term drift	≤ 0.1% FS / a
Repetition accuracy	0.1% FS
Programming options	
Outputs	Switching/re-switching points; start/end value for analog output; hysteresis/window mode; normally closed/ normally open contact; switch-on/switch-off delay
Display	Display mode (simple / detail. / off); color behavior; rotation; brightness; update rate; screen lock
Measuring value	Units; Damping; Resolution
Diagnosis	
Pressure peaks	Counter, adjustable threshold, reset
Counters	Switching operations; load changes; operating hours; starting cycles

Materials (wetted parts)	
Material fluid connection	stainless steel 1.4404
Material measuring cell	ceramic Al ₂ O ₃ 96%
Material seals	see ordering information
Materials (non-wetted parts)	
Material housing	stainless steel 1.4305
Material display	glass (breakproof installation)
Sealing display	PE
Mechanical data	
Wrench size pressure connection	27
Weight	191g (G1/4"M, NPT1/4"M) 244g (G1/4"F, NPT1/4" F)
Pressure range	
Measuring range* [psi]	14.5 30 50 100 145 200 300 500 1000 2000
Overload press. [psi]	29 145 145 290 290 580 580 1450 2175 5438
Burst pressure [psi]	43.5 290 290 508 508 870 870 2030 4351 7251
*more measuring ranges available on request, UL certified only up to ≤2176 psi	
Operating conditions	
Operating temperature	Operation: -13°...+176°F Fluid: -13°...+212°F
Range of application	Fluid group 2 media only
EMC / interference immunity	EN61000-6-2 and EN61326-2-3
EMC / interference emission	EN61000-6-4 and EN61326-2-3
Vibration resistance	DIN EN 60068-2-6: 20G, 10-2000 Hz, XYZ
Shock resistance	DIN EN 60068-2-27: 50G, 11ms, XYZ
UL approval	E511277