

DATA SHEET | ENGLISH



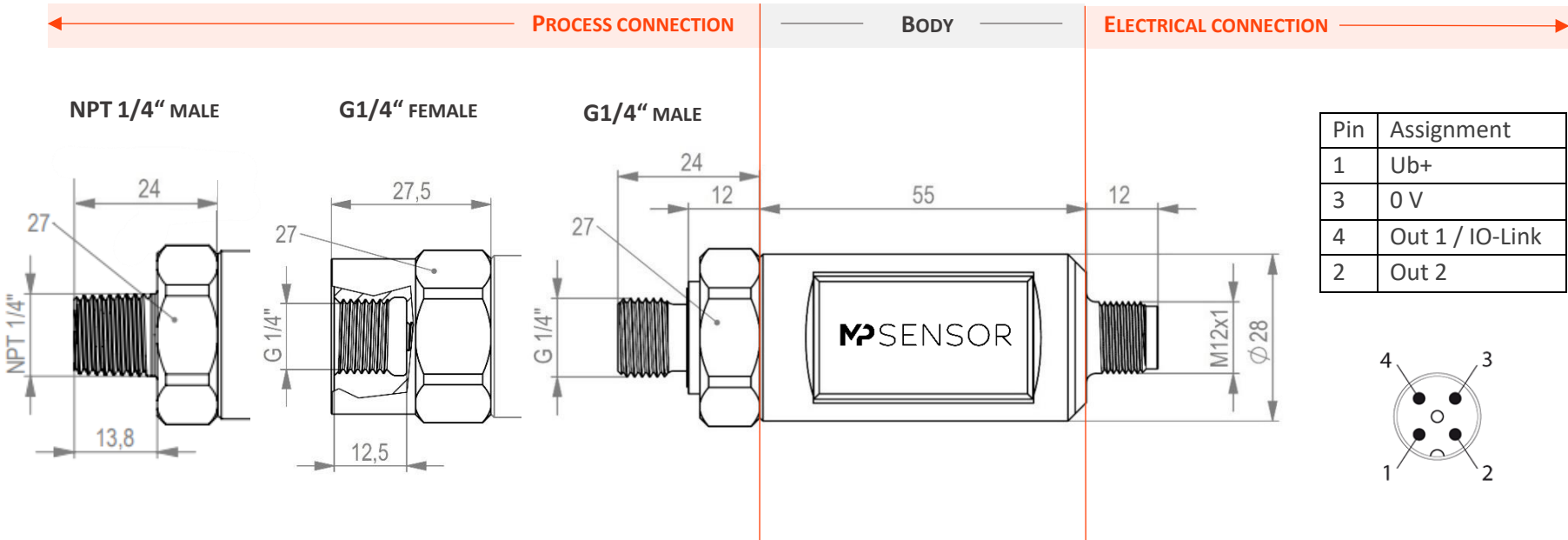
Industry 4.0 ready IO-Link sensor with TFT touch screen and a new, innovative operating concept.

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 - 10 - X 1 3 X - XXX X XX		
Process connection		Firmware
G1/4"M (male)	1	Standard 00
G1/4"F (female)	5	Customized >00
NPT1/4"M (male)	3	
NPT1/4"F (female)	6	
Sealings		Pressure range*
NBR (=standard)	1	-1...1 bar 001 2
FKM	2	-1...5 bar 005 2
EPDM	3	-1...10 bar 010 2
		0...10 bar 010 0
		0...16 bar 016 0
		0...25 bar 025 0
		0...40 bar 040 0
		0...100 bar 100 0
		0...250 bar 250 0
		0...400 bar 400 0
		0...600 bar 600 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 (23°C)	± 0.5% FS (LP)
max. temperature error (-25...+80°C)	± 1.5% FS (<100bar); ± 2.5% (≥100bar)
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); 244g (G1/4"F)

Pressure range

Measuring range* [bar]	1	5	10	16	25	40	100	250	400	600
Overload press.** [bar]	2	10	20	40	40	100	150	375	500	750
Burst pressure** [bar]	3	20	35	60	60	140	300	500	650	900

*more measuring ranges available on request, UL certified only up to ≤150 bar

** increased overload resistance available on request

Operating conditions

Operating temperature	Operation: -25°...+80°C Fluid: -25°...+100°C
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