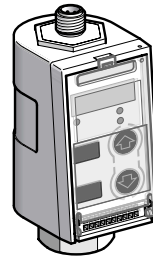
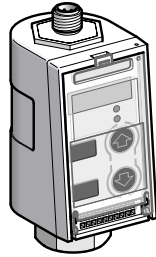


# Electronic pressure sensors

Nautilus®, type XML-F  
Rating 1 bar (14.5 psi)

Type	Analogue sensors	Universal sensors with adjustable differential. Solid state and analogue outputs (1)
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High point (PH) adjustment range (Increasing pressure)	-		0.08...1 bar (1.16...14.5 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

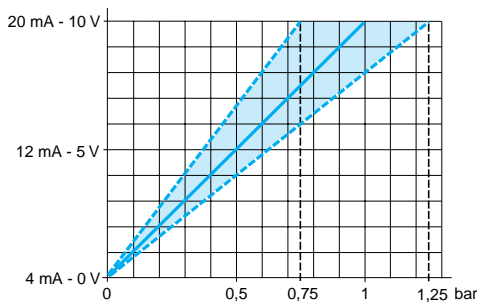
## References

Hydraulic connection (2)	1/4" gas female	XML-F001D2015	XML-F001D2115	XML-F001D2025	XML-F001D2125
	1/4" NPT female	XML-F001D2016	XML-F001D2116	XML-F001D2026	XML-F001D2126
	SAE 7/16-20UNF	XML-F001D2019	XML-F001D2119	XML-F001D2029	XML-F001D2129
Weight (kg)	0.480		0.480		0.480

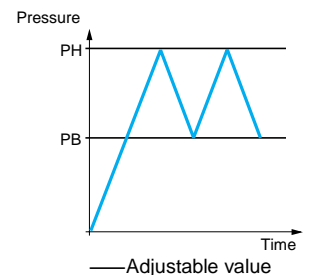
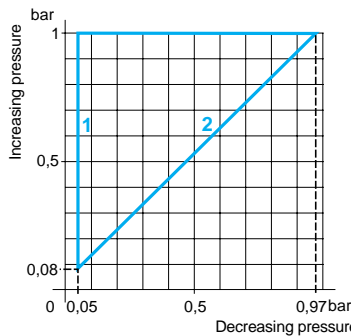
## Complementary characteristics (page 30386/3)

Feasible difference to be subtracted from PH to obtain PB Max. permissible accidental pressure	-	Min. at bottom and top of range: 0.03 bar (0.44 psi) Max. at top of range: 0.95 bar (13.77 psi)
Minimum breaking pressure	4 bar (58 psi)	
Rated supply voltage	24 V	
Voltage limits	17...33 V	
Current consumption	80 mA	80 mA
Output	-	Programmable, NPN or PNP, on opening "O" or on closing "C"
Time delay	-	On closing or opening, adjustable from 0 to 50 s, in steps of 1 second
Switching capacity	-	200 mA
Analogue output	4...20 mA or 0...10 V, depending on model. Signal maximum level adjustable between 0.75 and 1.25 bar (10.88 and 18.12 psi)	
Electrical connection	By M12 connector, male, 4 contacts. Adaptable female connectors and extension cables, see page 30339/2	

Analogue output curve

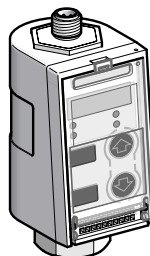
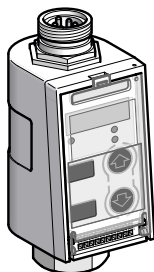


Pressure switch operating curves



(1) Pressure switches with adjustable difference for regulation between 2 thresholds, with solid-state output and analogue output.  
(2) Type of fluids monitored: hydraulic fluids, fresh water, seawater, air, corrosive fluids, from - 15 to + 80 °C. Component materials of sensor in contact with the fluid, see page 30386/3.

Units	Pressure switches with adjustable differential and relay output (1)	Dual stage adjustable pressure switches with solid state outputs (2)
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Adjustment range of upper point(s) (PH or PH1 and PH2) (Increasing pressure)	0.08...1 bar (1.16...14.5 psi)	0.08...1 bar (1.16...14.5 psi)
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## References

Hydraulic connection (3)	1/4" gas female	XML-F001E2045	XML-F001D2035
	1/4" NPT female	XML-F001E2046	XML-F001D2036
	SAE 7/16-20UNF	XML-F001E2049	XML-F001D2039
Weight (kg)	0.590		0.480

## Complementary characteristics (page 30386/3)

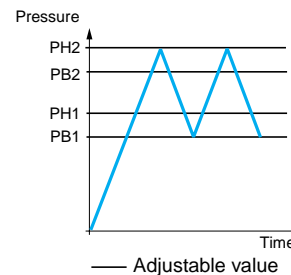
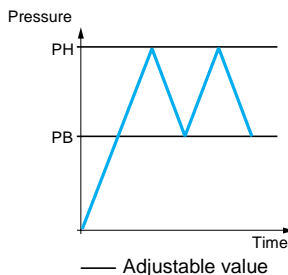
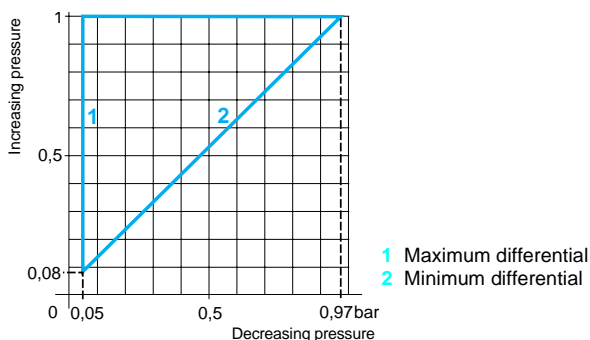
<b>Feasible difference</b> to be subtracted - from PH to obtain PB - from PH1 and PH2 to obtain PB1 and PB2	Min. at bottom and top of range: 0.03 bar (0.44 psi) Max. at top of range: 0.95 bar (13.77 psi)	For each stage: Min. at bottom and top of range: 0.03 bar (0.44 psi) Max. at top of range: 0.95 bar (13.77 psi)
<b>Max. permissible accidental pressure</b>	4 bar (58 psi)	
<b>Minimum breaking pressure</b>	6 bar (87 psi)	
<b>Rated supply voltage</b>	~ 120 V	= 24 V
<b>Voltage limits</b>	~ 102...132 V	= 17...33 V
<b>Current consumption</b>	32 mA	
<b>Output</b>	Relay	80 mA Programmable, NPN or PNP, on opening "O" or on closing "C"
<b>Time delay</b>	On closing or opening, adjustable from 0 to 50 s, in steps of 1 second	
<b>Switching capacity</b>	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
<b>Electrical connection</b>	By SAE 7/8-16UN connector, male, 5 contacts. Adaptable female extension cables, see page 30339/2	By M12 connector, male, 4 contacts. Adaptable female connectors and extension cables, see page 30339/2

### Pressure switch operating curves

(curve for each stage for 2-stage pressure switches)

Pressure switches with output relay

2-stage pressure switches



(1) Pressure switches with adjustable difference for regulation between 2 thresholds, with output relay.

(2) Adjustable 2-stage pressure switches and difference adjustable at each threshold, with solid-state outputs.

(3) Type of fluids monitored: hydraulic fluids, fresh water, seawater, air, corrosive fluids, from - 15 to + 80 °C. Component materials of sensor in contact with the fluid, see page 30386/3.