Electronic Pressure Sensors—NAUTILUS™
Type XMLF, Configurable Units with Digital Display, for Control Circuits

XMLF Part Number Description

Type

Pressure Ranges

Range Code	PSI	BAR
M01	–14.5 to 0	-1 to 0
001	0 to 14.5	0 to 1.0
002	0 to 36.25	0 to 2.5
010	0 to 145	0 to 10
016	0 to 232	0 to 16
025	0 to 362.5	0 to 25
040	0 to 580	0 to 40
070	0 to 1015	0 to 70
100	0 to 1450	0 to 100
160	0 to 2320	0 to 160
250	0 to 3625	0 to 250
400	0 to 5800	0 to 400
600	0 to 8700	0 to 600

Electrical Output

D201 = DC Analog 4–20 mA, shunt calibration

D202 = DC Analog 4–20 mA, digital single stage

D211 = DC Analog 0–10 V, shunt calibration

D212 = DC Analog 4–20 mA, digital single stage

D203 = DC digital dual stage

E204 = AC Relay 120 V

Pressure Entry Threads

5 = 1/4 in. Gas female

6 = 1/4 in. NPT female

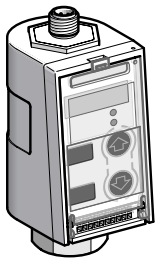
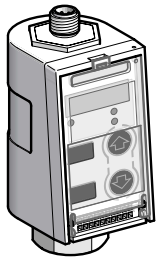
9 = SAE 7/16-20UNF female

XMLF Specifications

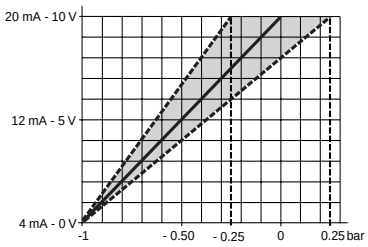
Conforming to standards	e , IEC/EN 60947-1, IEC/EN 60947-5-1, EN 50081, EN 50082, EN 61000-6-2, EN 61000-4-2/3/4/5/8/11
Product certifications	UL, File E16 4865 CCN NKPZ; CSA, File LR44087 Class 3211-03
Protective treatment	Standard version “TC”
Ambient air temperature (Operation)	AC models: –13 to + 167 °F (–25 to +75 °C) DC models: –13 to + 176 °F (–25 to +80 °C)
Fluids or products controlled	hydraulic fluids, air, fresh water, sea water, corrosive fluids: +5 to +176 °F (–15 to +80 °C)
Materials in contact with fluid	Stainless steel fluid entry, viton gasket
Operating position	All positions
Vibration resistance	5 gn (25–200 Hz) and 35 gn (60–2000 Hz)
Shock resistance	50 gn
Electrical protection	Protected against reverse polarity, short-circuit and overload
Degree of protection	IP 65 conforming to IEC/EN 60529
Operating rate	< 50 Hz
Response time	Adjustable from 5 to 500, in increments of 1 ms
Service life	> 10 million operating cycles
Precision	Zero point: < ± 0.01% of the measuring range/°C Sensitivity: < ± 0.03% of the measuring range/°C
Accuracy	≤ ± 0.5% of the measuring range
Repeat accuracy	≤ ± 0.5% of the measuring range
Display response time	Adjustable, 3 options: slow (1% of the unit’s size), normal (0.5% of the unit’s size) or fast (refreshed every 10 ms)
Fluid connections	G 1/4 A (1/4 in. BSP female) conforming to NF E 03-004 and ISO 7, 1/4 in. NPT female or SAE 7/16-20UNF depending on model
Electrical connections	M12, Snap “C” compatible connector or SAE 7/8-16UN connector, depending on model

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

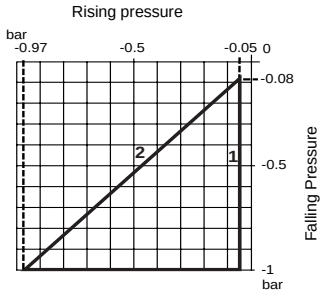
Analog and universal sensors, configurable with digital display
Rated –14.5 psi (–1 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PB (falling pressure)	—		–1.16 to –14.5 psi (–0.08 to –1 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP male	**XMLFM01D2015**	**XMLFM01D2115**	**XMLFM01D2025**	**XMLFM01D2125**
1/4 in. NPT male	**XMLFM01D2016**	**XMLFM01D2116**	**XMLFM01D2026**	**XMLFM01D2126**
SAE 7/16-20UNF	**XMLFM01D2019**	**XMLFM01D2119**	**XMLFM01D2029**	**XMLFM01D2129**
Weight, lb (kg)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Add to PB to get PH	—		Minimum at low and high setting: 0.44 psi (0.03 bar) Maximum at low setting: 13.77 psi (0.95 bar)	
Maximum allowable surge pressure	43.5 psi (3 bar)			
Destruction pressure	72.5 psi (5 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between –3.62 and 3.62 psi (–0.25 and 0.25 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

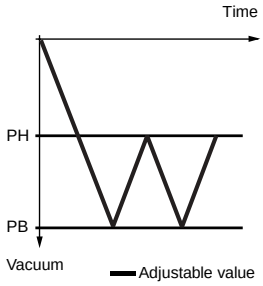
Analog output curves



Vacuum sensor operating curves

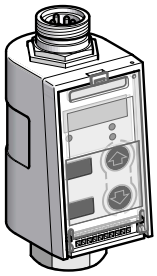
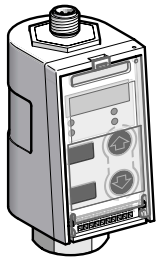


1 Maximum differential
2 Minimum differential

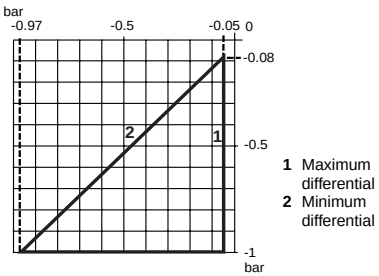


(1) Vacuum sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

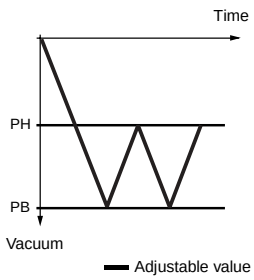
Vacuum switches, configurable with digital display
Rated –14.5 psi (–1 bar)

Type	**Vacuum switches with adjustable differential and relay output (1)**	**Dual stage adjustable vacuum switches with solid state outputs (2)**
		
Adjustable range of switching point(s), PB or PB1 and PB2 (falling pressure)	–1.16 to –14.5 psi (–0.08 to –1 bar)	–1.16 to –14.5 psi (–0.08 to –1 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP male	**XMLFM01E2045**	**XMLFM01D2035**
1/4 in. NPT male	**XMLFM01E2046**	**XMLFM01D2036**
SAE 7/16-20UNF	**XMLFM01E2049**	**XMLFM01D2039**
Weight, lb (kg)	1.30 (0.59)	1.06 (0.48)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Add to: PB to get PH; PB1 and PB2 to get PH1 and PH2	Minimum at low and high setting: 0.44 psi (0.03 bar) Maximum at low setting: 13.77 psi (0.95 bar)	For each stage: Minimum at low and high setting: 0.44 psi (0.03 bar) Maximum at low setting: 13.77 psi (0.95 bar)
Maximum allowable surge pressure	43.5 psi (3 bar)	
Destruction pressure	72.5 psi (5 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

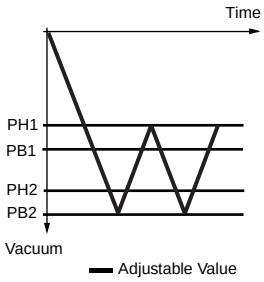
Vacuum switch operating curves
(curve for each stage for dual stage vacuum switches)



Vacuum switches with relay output



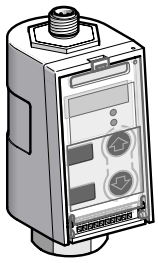
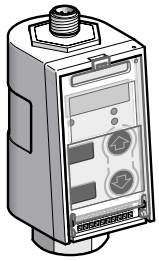
Dual stage vacuum switches



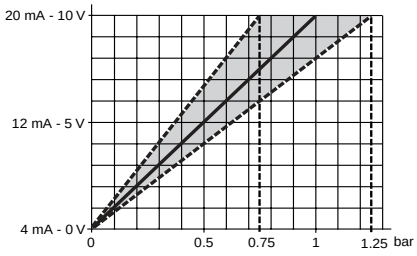
(1) Vacuum switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Vacuum switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

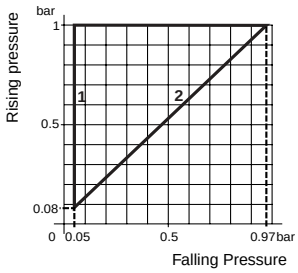
Configurable universal sensors and detectors, with digital display
Rated 14.5 psi (1 bar)

Units	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
High point (PH) adjustment range (rising pressure)	—		1.16 to 14.5 psi (0.08 to 1 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP male	**XMLF001D2015**	**XMLF001D2115**	**XMLF001D2025**	**XMLF001D2125**
1/4 in. NPT male	**XMLF001D2016**	**XMLF001D2116**	**XMLF001D2026**	**XMLF001D2126**
SAE 7/16-20UNF	**XMLF001D2019**	**XMLF001D2119**	**XMLF001D2029**	**XMLF001D2129**
Weight, lb (kg)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at bottom and top of range: 0.44 psi (0.03 bar) Maximum at top of range: 13.77 psi (0.95 bar)	
Maximum allowable surge pressure	58 psi (4 bar)			
Destruction pressure	87 psi (6 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		On closing or opening, adjustable from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 10.88 and 18.12 psi (0.75 and 1.25 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

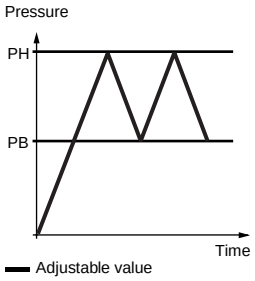
Analog output curves



Pressure switch operating curves

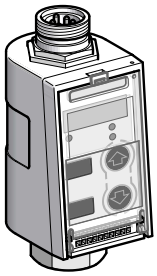
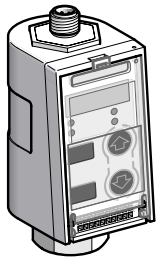


1 Maximum differential
2 Minimum differential

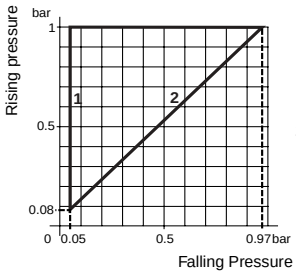


(1) Pressure switches with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids monitored: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 14.5 psi (1 bar)

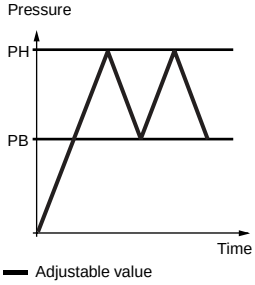
Units	Pressure switches with adjustable differential and output relays (1)	Adjustable dual stage pressure switches with solid-state outputs (2)
		
Adjustable range of upper point(s), PH, or PH1 and PH2 (rising pressure)	1.16 to 14.5 psi (0.08 to 1 bar)	1.16 to 14.5 psi (0.08 to 1 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. gas female	**XMLF001E2045**	**XMLF001D2035**
1/4 in. NPT female	**XMLF001E2046**	**XMLF001D2036**
SAE 7/16-20UNF	**XMLF001E2049**	**XMLF001D2039**
Weight, lb (kg)	1.30 (0.59)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21"XMLF Specifications" on page 21		
Possible differential Subtract from: PH to get PB; PH1 and PH2 to get PB1 and PB2	Minimum at bottom and top of range: 0.44 psi (0.03 bar) Maximum at top of range: 13.77 psi (0.95 bar)	For each stage: Minimum at bottom and top of range: 0.44 psi (0.03 bar) Maximum at top of range: 13.77 psi (0.95 bar)
Maximum allowable surge pressure	58 psi (4 bar)	
Destruction pressure	87 psi (6 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	On closing or opening, adjustable from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)



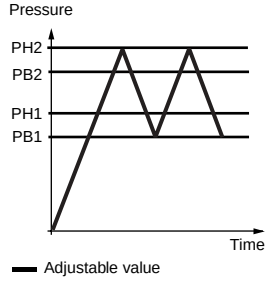
1 Maximum differential
2 Minimum differential

Pressure switches with output relay



Adjustable value

Dual stage pressure switches

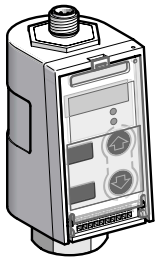
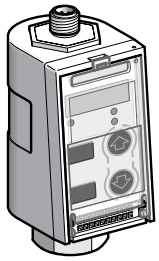


Adjustable value

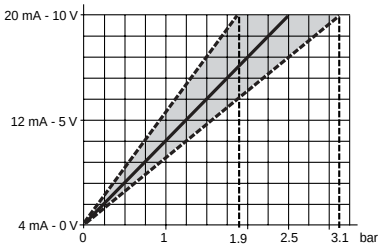
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids monitored: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

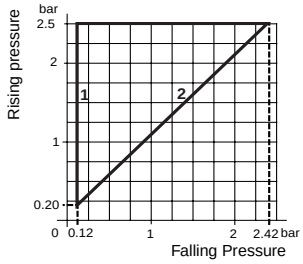
Analog and universal sensors, configurable with digital display
Rated 36.25 psi (2.5 bar)

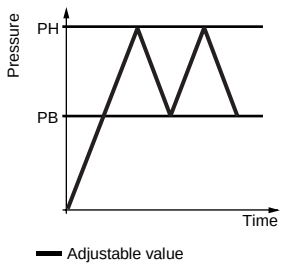
Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		2.9 to 36.25 psi (0.20 to 2.5 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF002D2015**	**XMLF002D2115**	**XMLF002D2025**	**XMLF002D2125**
1/4 in. NPT female	**XMLF002D2016**	**XMLF002D2116**	**XMLF002D2026**	**XMLF002D2126**
SAE 7/16-20UNF	**XMLF002D2019**	**XMLF002D2119**	**XMLF002D2029**	**XMLF002D2129**
Weight, lb (kg)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 1.09 psi (0.08 bar) Maximum at high setting: 34.51 psi (2.38 bar)	
Maximum allowable surge pressure	145 psi (10 bar)			
Destruction pressure	217.5 psi (15 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 27.5 and 44.9 psi (1.9 and 3.1 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

Analog output curves



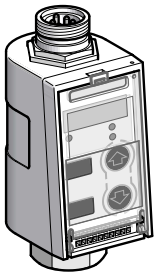
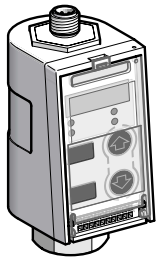
Pressure sensor operating curves



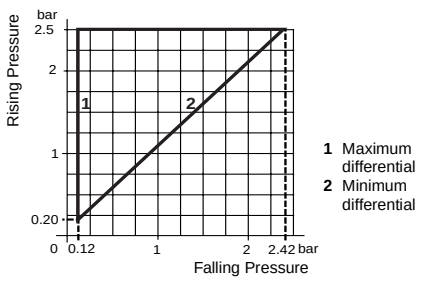


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 36.25 psi (2.5 bar)

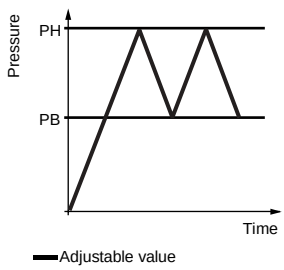
Type	**Pressure switches with adjustable differential and relay output (1)**	**Dual stage adjustable pressure switches with solid state outputs (2)**
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	2.9 to 36.25 psi (0.20 to 2.5 bar)	2.9 to 36.25 psi (0.20 to 2.5 bar))
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF002E2045**	**XMLF002D2035**
1/4 in. NPT female	**XMLF002E2046**	**XMLF002D2036**
SAE 7/16-20UNF	**XMLF002E2049**	**XMLF002D2039**
Weight, lb (kg)	1.30 (0.59)	1.06 (0.48)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB; PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 1.09 psi (0.08 bar) Maximum at high setting: 34.51 psi (2.38 bar)	Minimum at low and high setting: 1.09 psi (0.08 bar) Maximum at high setting: 34.51 psi (2.38 bar)
Maximum allowable surge pressure	145 psi (10 bar)	
Destruction pressure	217.5 psi (15 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)



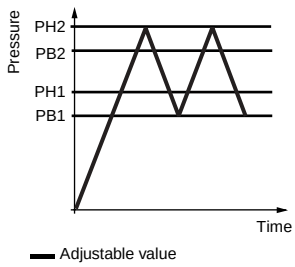
1 Maximum differential
2 Minimum differential

Pressure switches with relay output



Adjustable value

Dual stage pressure switches

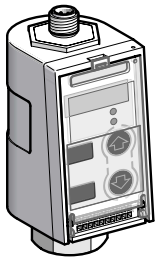
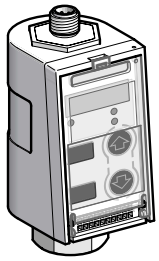


Adjustable value

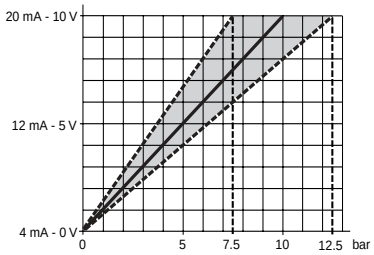
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

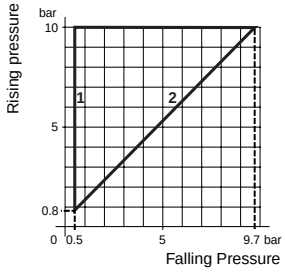
Analog and universal sensors, configurable with digital display
Rated 145 psi (10 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		11.6 to 145 psi (0.8 to 10bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF010D2015**	**XMLF010D2115**	**XMLF010D2025**	**XMLF010D2125**
1/4 in. NPT female	**XMLF010D2016**	**XMLF010D2116**	**XMLF010D2026**	**XMLF010D2126**
SAE 7/16-20UNF	**XMLF010D2019**	**XMLF010D2119**	**XMLF010D2029**	**XMLF010D2129**
Weight, lb (kg)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 4.4 psi (0.3 bar) Maximum at high setting: 137.75 psi (9.5 bar)	
Maximum allowable surge pressure	580 psi (40 bar)			
Destruction pressure	870 psi (60 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA		80 mA	
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 108.76 and 181.25 psi (7.5 and 12.5 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

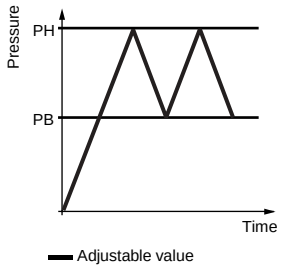
Analog output curves



Pressure sensor operating curves

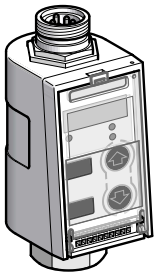
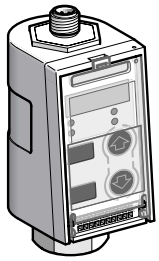


1 Maximum differential
2 Minimum differential



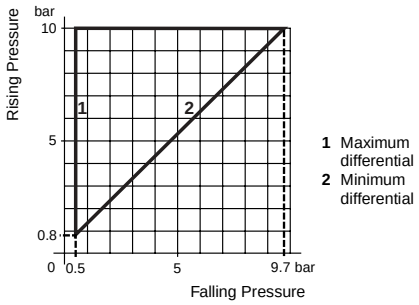
(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 145 psi (10 bar)

Type	Pressure switches with adjustable differential and relay output (1)	Dual stage adjustable pressure switches with solid state outputs (2)
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	11.6 to 145 psi (0.8 to 10 bar)	11.6 to 145 psi (0.8 to 10 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF010E2045**	**XMLF010D2035**
1/4 in. NPT female	**XMLF010E2046**	**XMLF010D2036**
SAE 7/16-20UNF	**XMLF010E2049**	**XMLF010D2039**
Weight, lb (kg)	1.30 (0.59)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21		
Possible differential Subtract from: PH to get PB; PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 4.4 psi (0.3 bar) Maximum at high setting: 137.75 psi (9.5 bar)	For each stage: Minimum at low and high setting: 4.4 psi (0.3 bar) Maximum at high setting: 137.75 psi (9.5 bar)
Maximum allowable surge pressure	580 psi (40 bar)	
Destruction pressure	870 psi (60 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

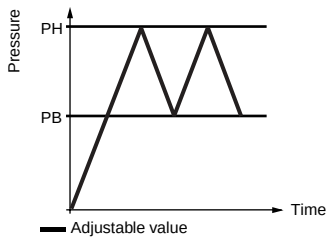
Pressure switch operating curves

(curve for each stage for dual stage pressure switches)

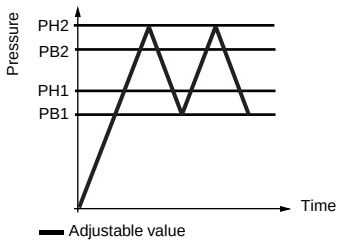


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



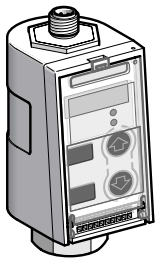
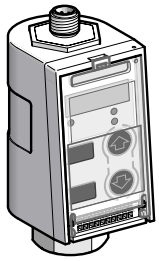
Dual stage pressure switches



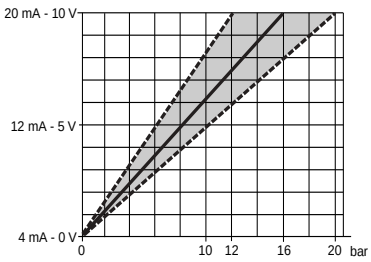
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

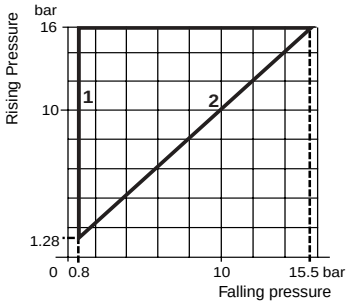
Analog and universal sensors, configurable with digital display
Rated 232 psi (16 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs.	
				
Adjustable range of switching point, PH (Rising pressure	—		18.56 to 232 psi (1.28 to 16 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection [2]				
1/4 in. BSP female	**XMLF016D2015**	**XMLF016D2115**	**XMLF016D2025**	**XMLF016D2125**
1/4 in. NPT female	**XMLF016D2016**	**XMLF016D2116**	**XMLF016D2026**	**XMLF016D2126**
SAE 7/16-20UNF	**XMLF016D2019**	**XMLF016D2119**	**XMLF016D2029**	**XMLF016D2129**
Weight, lb (kg)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 6.96 psi (0.48 bar) Maximum at high setting: 220.4 psi (15.2 bar)	
Maximum allowable surge pressure	928 psi (64 bar)			
Destruction pressure	1392 psi (96 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 174 and 290 psi (12 and 20 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

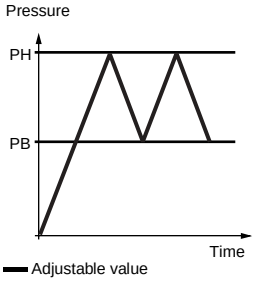
Analog output curves



Pressure switch operating curves

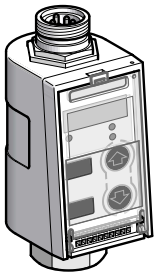
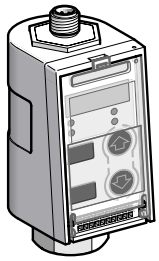


1 Maximum differential
2 Minimum differential

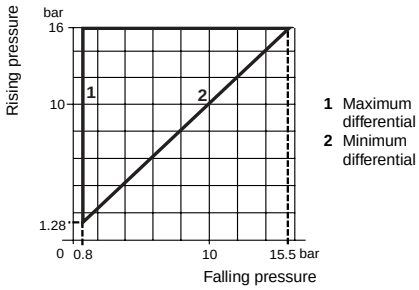


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 232 psi (16 bar)

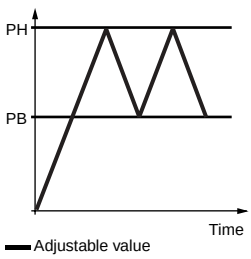
Type	**Pressure switches with adjustable differential and relay output** (1)	**Dual stage adjustable pressure switches with solid state outputs** (2)
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	18.56 to 232 psi (1.28 to 16 bar)	18.56 to 232 psi (1.28 to 16 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF016E2045**	**XMLF016D2035**
1/4 in. NPT female	**XMLF016E2046**	**XMLF016D2036**
SAE 7/16-20UNF	**XMLF016E2049**	**XMLF016D2039**
Weight, lb (kg)	1.30 (0.59)	1.06 (0.48)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB; PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 6.96 psi (0.48 bar) Maximum at high setting: 220.4 psi (15.2 bar)	For each stage: Minimum at low and high setting: 6.96 psi (0.48 bar) Maximum at high setting: 220.4 psi (15.2 bar)
Maximum allowable surge pressure	928 psi (64 bar)	
Destruction pressure	1392 psi (96 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

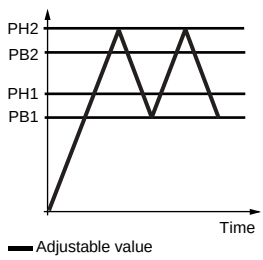


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



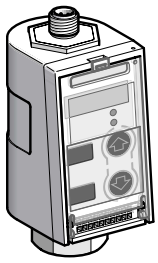
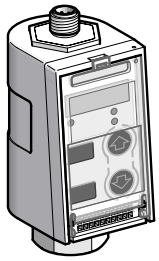
Dual stage pressure switches



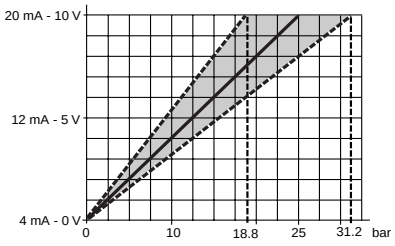
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

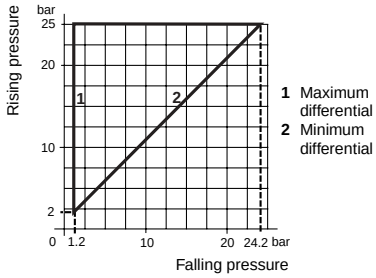
Analog and universal sensors, configurable with digital display
Rated 362.5 psi (25 bar)

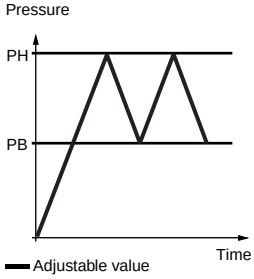
Type	**Analog sensors**		**Universal sensors with adjustable differential. Solid state and analog outputs** (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		29 to 362.5 psi (2 to 25 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF025D2015**	**XMLF025D2115**	**XMLF025D2025**	**XMLF016D2125**
1/4 in. NPT female	**XMLF025D2016**	**XMLF025D2116**	**XMLF025D2026**	**XMLF016D2126**
SAE 7/16-20UNF	**XMLF025D2019**	**XMLF025D2119**	**XMLF025D2029**	**XMLF016D2129**
Weight, lb (kg)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)	1.06 (0.48)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 10.9 psi (0.75 bar) Maximum at high setting: 345.1 psi (23.8 bar)	
Maximum allowable surge pressure	1450 psi (100 bar)			
Destruction pressure	2175 psi (150 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA		80 mA	
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 272.6 and 452.4 psi (18.8 and 31.2 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

Analog output curves



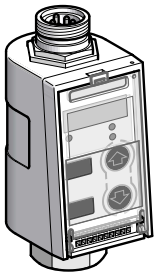
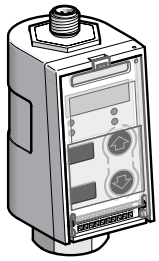
Pressure switch operating curves





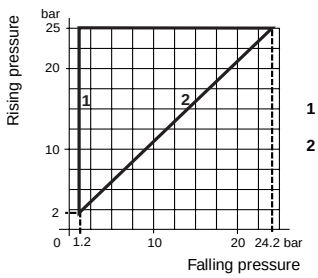
(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 362.5 psi (25 bar)

Type	**Pressure switches with adjustable differential and relay output (1)**	**Dual stage adjustable pressure switches with solid state outputs (2)**
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	29 to 362.5 psi (2 to 25 bar)	29 to 362.5 psi (2 to 25 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF025E2045**	**XMLF025D2035**
1/4 in. NPT female	**XMLF025E2046**	**XMLF025D2036**
SAE 7/16-20UNF	**XMLF025E2049**	**XMLF025D2039**
Weight, lb (kg)	1.30 (0.59)	1.06 (0.48)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB; PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 10.9 psi (0.75 bar) Maximum at high setting: 345.1 psi (23.8 bar)	For each stage: Minimum at low and high setting: 10.9 psi (0.75 bar) Maximum at high setting: 345.1 psi (23.8 bar)
Maximum allowable surge pressure	1450 psi (100 bar)	
Destruction pressure	2175 psi (150 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

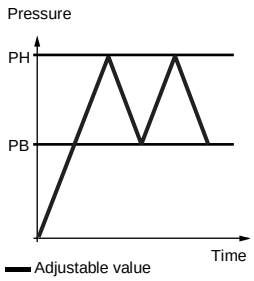
Pressure switch operating curves

(curve for each stage for dual stage pressure switches)

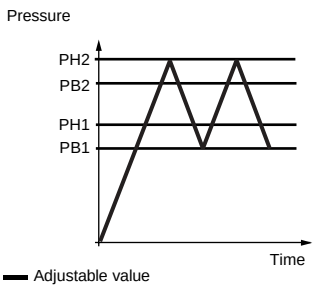


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



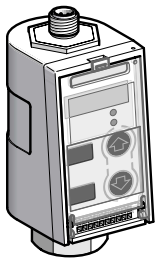
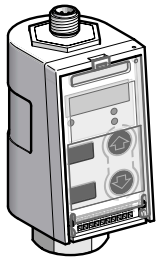
Dual stage pressure switches



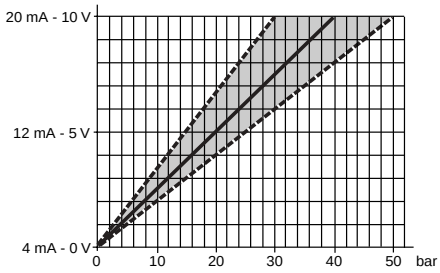
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

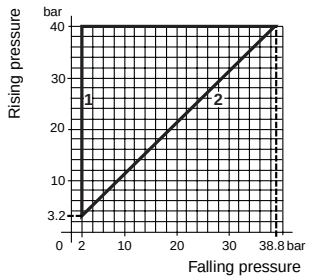
Analog and universal sensors, configurable with digital display
Rated 580 psi (40 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		46.4 to 580 psi (3.2 to 40 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF040D2015**	**XMLF040D2115**	**XMLF040D2025**	**XMLF040D2125**
1/4 in. NPT female	**XMLF040D2016**	**XMLF040D2116**	**XMLF040D2026**	**XMLF040D2126**
SAE 7/16-20UNF	**XMLF040D2019**	**XMLF040D2119**	**XMLF040D2029**	**XMLF040D2129**
Weight, lb (kg)	1.10 (0.50)	1.10 (0.50)	1.10 (0.50)	1.10 (0.50)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 17.4 psi (1.2 bar) Maximum at high setting: 551 psi (38 bar)	
Maximum allowable surge pressure	2320 psi (160 bar)			
Destruction pressure	3480 psi (240 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 435 and 725 psi (30 and 50 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

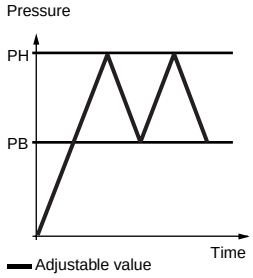
Analog output curves



Pressure switch operating curves

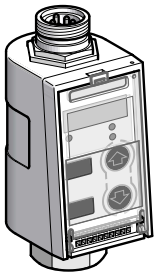
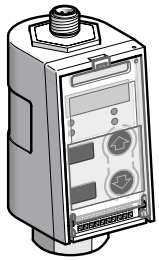


1 Maximum differential
2 Minimum differential

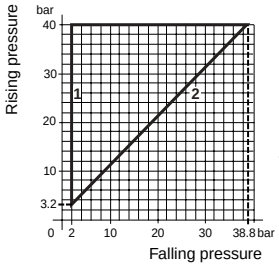


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 580 psi (40 bar)

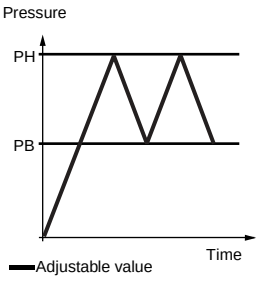
Type	**Pressure switches with adjustable differential and relay output (1)**	**Dual stage adjustable pressure switches with solid state outputs (2)**
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	46.4 to 580 psi (3.2 to 40 bar)	46.4 to 580 psi (3.2 to 40 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF040E2045**	**XMLF040D2035**
1/4 in. NPT female	**XMLF040E2046**	**XMLF040D2036**
SAE 7/16-20UNF	**XMLF040E2049**	**XMLF040D2039**
Weight, lb (kg)	1.34 (0.61)	1.10 (0.50)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 17.4 psi (1.2 bar) Maximum at high setting: 551 psi (38 bar)	For each stage: Minimum at low and high setting: 17.4 psi (1.2 bar) Maximum at high setting: 551 psi (38 bar)
Maximum allowable surge pressure	2320 psi (160 bar)	
Destruction pressure	3480 psi (240 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

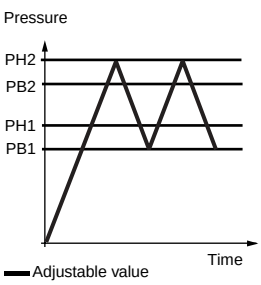


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



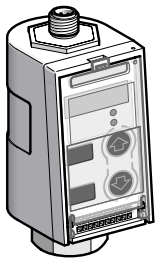
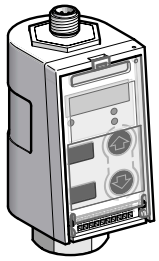
Dual stage pressure switches



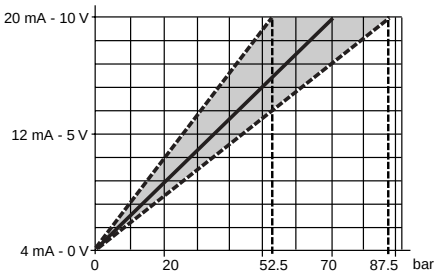
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

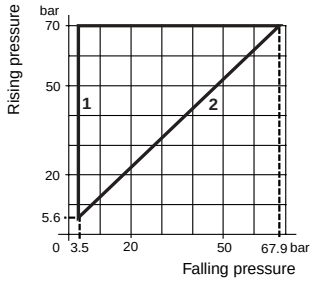
Analog and universal sensors, configurable with digital display
Rated 1015 psi (70 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		81.2 to 1015 psi (5.6 to 70 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF070D2015**	**XMLF070D2115**	**XMLF070D2025**	**XMLF070D2125**
1/4 in. NPT female	**XMLF070D2016**	**XMLF070D2116**	**XMLF070D2026**	**XMLF070D2126**
SAE 7/16-20UNF	**XMLF070D2019**	**XMLF070D2119**	**XMLF070D2029**	**XMLF070D2129**
Weight, lb (kg)	1.10 (0.50)	1.10 (0.50)	1.10 (0.50)	1.10 (0.50)
Additional specifications not shown under “XMLF Specifications” on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 30.5 psi (2.1 bar) Maximum at high setting: 964.2 psi (66.5 bar)	
Maximum allowable surge pressure	4060 psi (280 bar)			
Destruction pressure	6090 psi (420 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 761.3 and 1268.7 psi (52.5 and 87.5 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

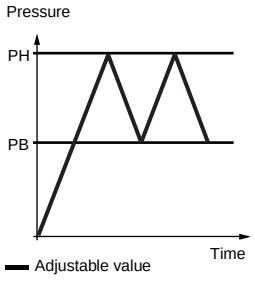
Analog output curves



Pressure sensor operating curves

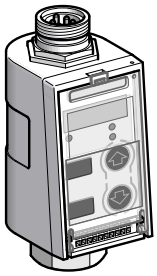
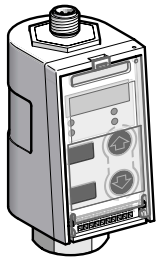


1 Maximum differential
2 Minimum differential



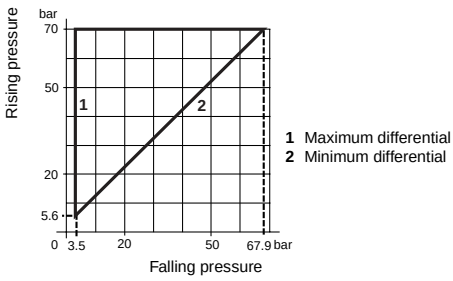
(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Pressure switches, configurable with digital display
Rated 1015 psi (70 bar)

Type	**Pressure switches with adjustable differential and relay output** (1)	**Dual stage adjustable pressure switches with solid state outputs** (2)
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	81.2 to 1015 psi (5.6 to 70 bar)	81.2 to 1015 psi (5.6 to 70 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF070E2045**	**XMLF070D2035**
1/4 in. NPT female	**XMLF070E2046**	**XMLF070D2036**
SAE 7/16-20UNF	**XMLF070E2049**	**XMLF070D2039**
Weight, lb (kg)	1.34 (0.61)	1.10 (0.50)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 30.5 psi (2.1 bar) Maximum at high setting: 964.2 psi (66.5 bar)	For each stage: Minimum at low and high setting: 30.5 psi (2.1 bar) Maximum at high setting: 964.2 psi (66.5 bar)
Maximum allowable surge pressure	4060 psi (280 bar)	
Destruction pressure	6090 psi (420 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

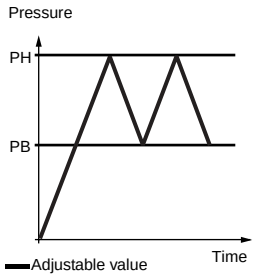
Pressure switch operating curves

(curve for each stage for dual stage pressure switches)

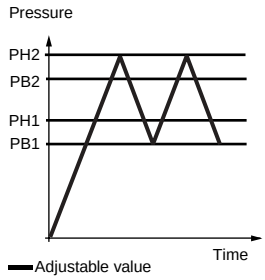


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



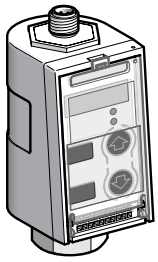
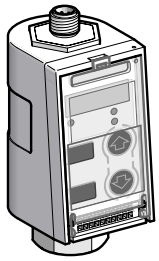
Dual stage pressure switches



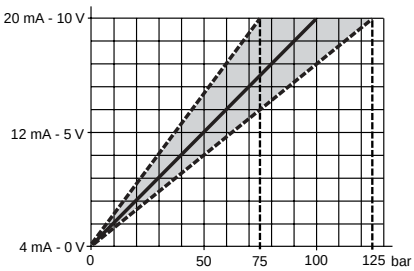
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

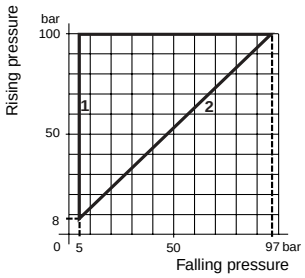
Analog and universal sensors, configurable with digital display
Rated 1450 psi (100 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		116 to 1450 psi (8 to 100 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF100D2015**	**XMLF100D2115**	**XMLF100D2025**	**XMLF100D2125**
1/4 in. NPT female	**XMLF100D2016**	**XMLF100D2116**	**XMLF100D2026**	**XMLF100D2126**
SAE 7/16-20UNF	**XMLF100D2019**	**XMLF100D2119**	**XMLF100D2029**	**XMLF100D2129**
Weight, lb (kg)	1.10 (0.50)	1.10 (0.50)	1.10 (0.50)	1.10 (0.50)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 43.5 psi (3 bar) Maximum at high setting: 1377.5 psi (95 bar)	
Maximum allowable surge pressure	5800 psi (400 bar)			
Destruction pressure	8700 psi (600 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 1087.5 and 1812.5 psi (75 and 125 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

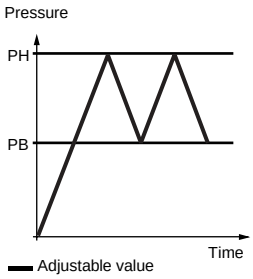
Analog output curves



Pressure switch operating curves

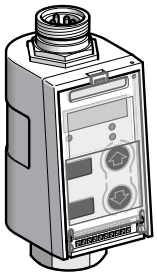
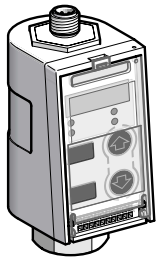


1 Maximum differential
2 Minimum differential

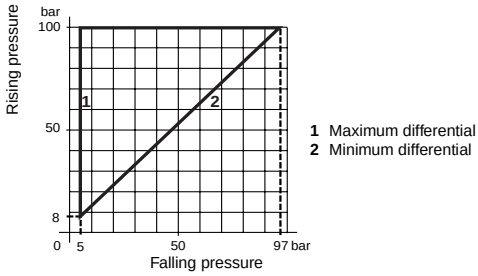


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 1450 psi (100 bar)

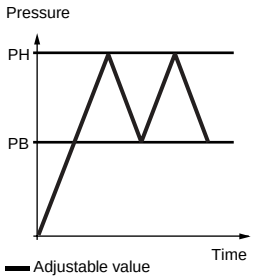
Type	**Pressure switches with adjustable differential and relay output** (1)	**Dual stage adjustable pressure switches with solid state outputs** (2)
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	116 to 1450 psi (8 to 100 bar)	116 to 1450 psi (8 to 100 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF100E2045**	**XMLF100D2035**
1/4 in. NPT female	**XMLF100E2046**	**XMLF100D2036**
SAE 7/16-20UNF	**XMLF100E2049**	**XMLF100D2039**
Weight, lb (kg)	1.34 (0.61)	1.10 (0.50)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 43.5 psi (3 bar) Maximum at high setting: 1377.5 psi (95 bar)	For each stage: Minimum at low and high setting: 43.5 psi (3 bar) Maximum at high setting: 1377.5 psi (95 bar)
Maximum allowable surge pressure	5800 psi (400 bar)	
Destruction pressure	8700 psi (600 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

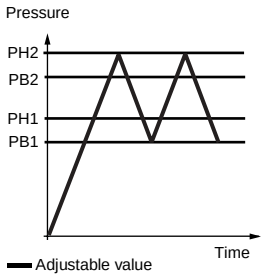


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



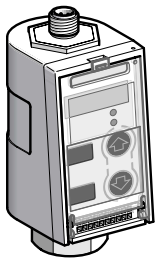
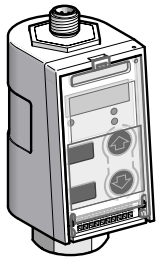
Dual stage pressure switches



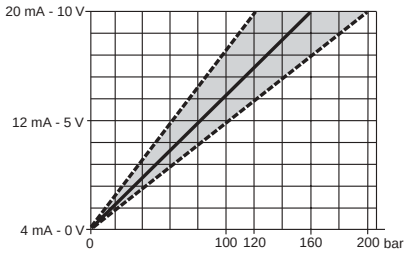
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

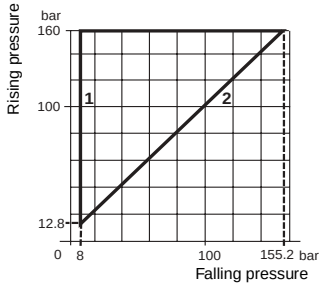
Analog and universal sensors, configurable with digital display
Rated 2320 psi (160 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		185.6 to 2320 psi (12.8 to 160 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF160D2015**	**XMLF160D2115**	**XMLF160D2025**	**XMLF160D2125**
1/4 in. NPT female	**XMLF160D2016**	**XMLF160D2116**	**XMLF160D2026**	**XMLF160D2126**
SAE 7/16-20UNF	**XMLF160D2019**	**XMLF160D2119**	**XMLF160D2029**	**XMLF160D2129**
Weight, lb (kg)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 69.6 psi (4.8 bar) Maximum at high setting: 2204 psi (152 bar)	
Maximum allowable surge pressure	9280 psi (640 bar)			
Destruction pressure	13,920 psi (960 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 1740 and 2900 psi (120 and 200 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

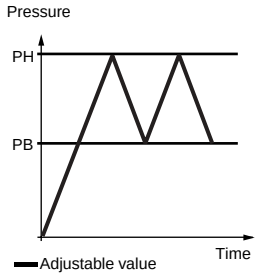
Analog output curves



Pressure sensor operating curves

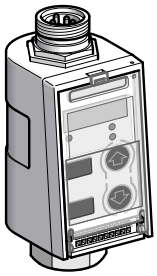
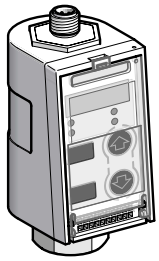


1 Maximum differential
2 Minimum differential

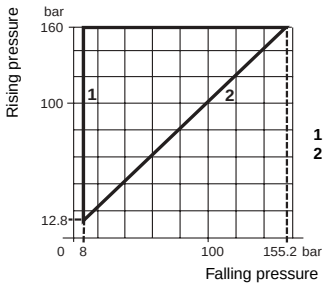


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 2320 psi (160 bar)

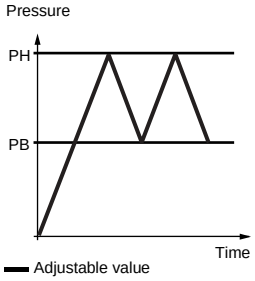
Type	**Pressure switches with adjustable differential and relay output (1)**	**Dual stage adjustable pressure switches with solid state outputs (2)**
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	185.6 to 2320 psi (12.8 to 160 bar)	185.6 to 2320 psi (12.8 to 160 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF160E2045**	**XMLF160D2035**
1/4 in. NPT female	**XMLF160E2046**	**XMLF160D2036**
SAE 7/16-20UNF	**XMLF160E2049**	**XMLF160D2039**
Weight, lb (kg)	1.54 (0.70)	1.30 (0.59)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 69.6 psi (4.8 bar) Maximum at high setting: 2204 psi (152 bar)	For each stage: Minimum at low and high setting: 69.6 psi (4.8 bar) Maximum at high setting: 2204 psi (152 bar)
Maximum allowable surge pressure	9280 psi (640 bar)	
Destruction pressure	13,920 psi (960 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

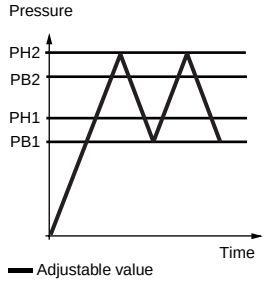


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



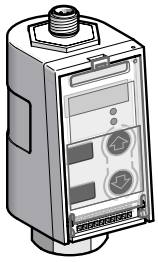
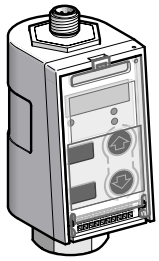
Dual stage pressure switches



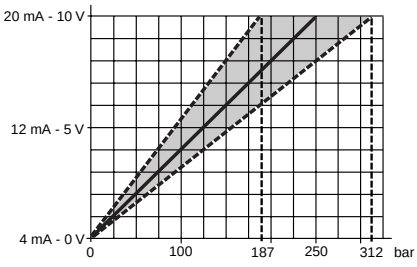
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

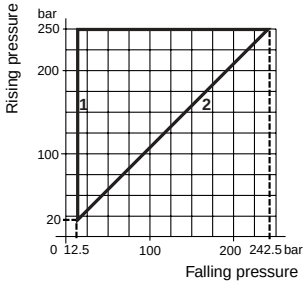
Analogue and universal sensors, configurable with digital display
Rated 3625 psi (250 bar)

Type	**Analog sensors**		**Universal sensors with adjustable differential. Solid state and analog outputs.** (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		290 to 3625 psi (20 to 250 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF250D2015**	**XMLF250D2115**	**XMLF250D2025**	**XMLF1250D2125**
1/4 in. NPT female	**XMLF250D2016**	**XMLF250D2116**	**XMLF250D2026**	**XMLF250D2126**
SAE 7/16-20UNF	**XMLF250D2019**	**XMLF250D2119**	**XMLF250D2029**	**XMLF250D2129**
Weight, lb (kg)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 108.8 psi (7.5 bar) Maximum at high setting: 3443.7 psi (237.5 bar)	
Maximum allowable surge pressure	14,500 psi (1000 bar)			
Destruction pressure	21,750 psi (1500 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 2711 and 4524 psi (187 and 312 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

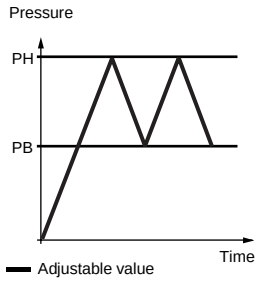
Analog output curves



Pressure sensor operating curves

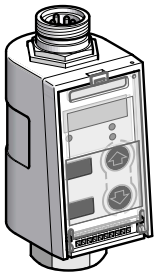
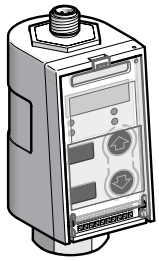


1 Maximum differential
2 Minimum differential

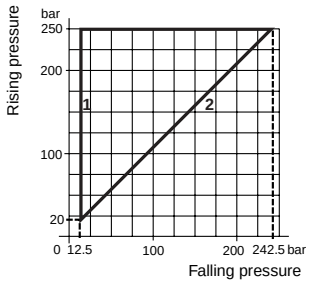


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 3625 psi (250 bar)

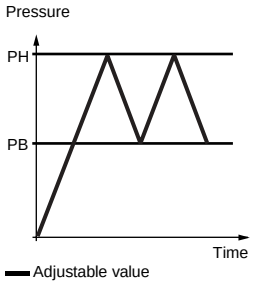
Type	Pressure switches with adjustable differential and relay output (1)	Dual stage adjustable pressure switches with solid state outputs (2)
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	290 to 3625 psi (20 to 250 bar)	290 to 3625 psi (20 to 250 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF250E2045**	**XMLF250D2035**
1/4 in. NPT female	**XMLF250E2046**	**XMLF250D2036**
SAE 7/16-20UNF	**XMLF250E2049**	**XMLF250D2039**
Weight, lb (kg)	1. 54 (0.70)	1.30 (0.59)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 108.8 psi (7.5 bar) Maximum at high setting: 3443.7 psi (237.5 bar)	For each stage: Minimum at low and high setting: 108.8 psi (7.5 bar) Maximum at high setting: 3443.7 psi (237.5 bar)
Maximum allowable surge pressure	14,500 psi (1000 bar)	
Destruction pressure	21,750 psi (1500 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

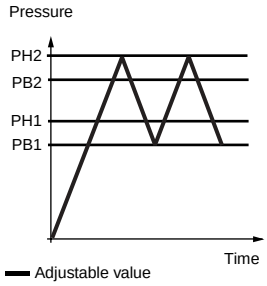


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



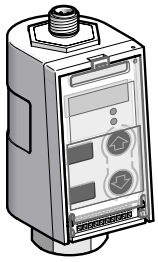
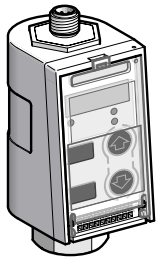
Dual stage pressure switches



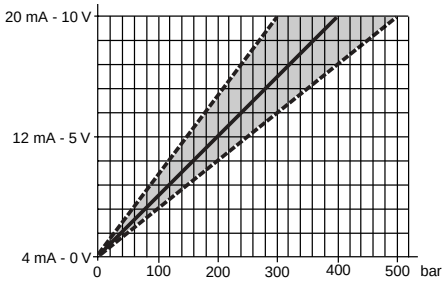
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

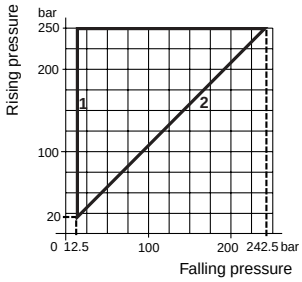
Analog and universal switches, configurable with digital display
Rated 5800 psi (400 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		464 to 5800 psi (32 to 400 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF400D2015**	**XMLF400D2115**	**XMLF400D2025**	**XMLF400D2125**
1/4 in. NPT female	**XMLF400D2016**	**XMLF400D2116**	**XMLF400D2026**	**XMLF400D2126**
SAE 7/16-20UNF	**XMLF400D2019**	**XMLF400D2119**	**XMLF400D2029**	**XMLF400D2129**
Weight, lb (kg)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 174 psi (12 bar) Maximum at high setting: 5510 psi (380 bar)	
Maximum allowable surge pressure	17,400 psi (1200 bar)			
Destruction pressure	26,100 psi (1800 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 4350 and 7250 psi (300 and 500 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

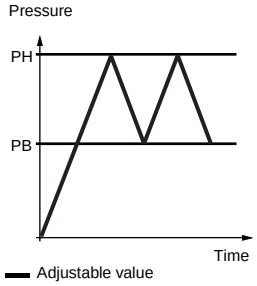
Analog output curves



Pressure sensor operating curves

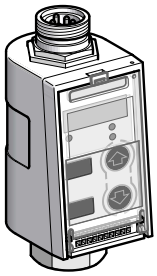
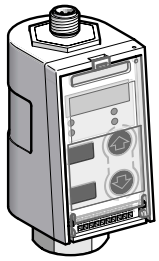


1 Maximum differential
2 Minimum differential

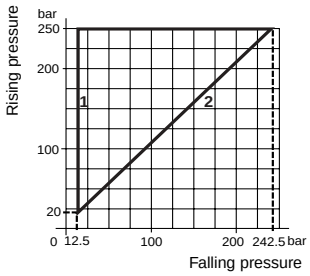


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 5800 psi (400 bar)

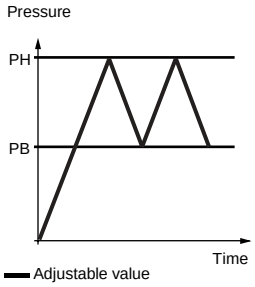
Type	**Pressure switches with adjustable differential and relay output** (1)	**Dual stage adjustable pressure switches with solid state outputs** (2)
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	464 to 5800 psi (32 to 400 bar)	464 to 5800 psi (32 to 400 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF400E2045**	**XMLF400D2035**
1/4 in. NPT female	**XMLF400E2046**	**XMLF400D2036**
SAE 7/16-20UNF	**XMLF400E2049**	**XMLF400D2039**
Weight, lb (kg)	1.54 (0.70)	1.30 (0.59)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 174 psi (12 bar) Maximum at high setting: 5510 psi (380 bar)	For each stage: Minimum at low and high setting: 174 psi (12 bar) Maximum at high setting: 5510 psi (380 bar))
Maximum allowable surge pressure	17.400 psi (1200 bar)	
Destruction pressure	26,100 psi (1800 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

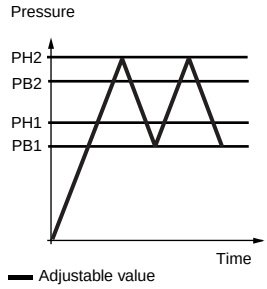


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



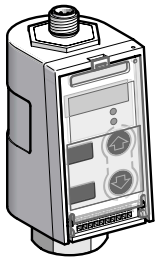
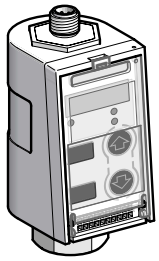
Dual stage pressure switches



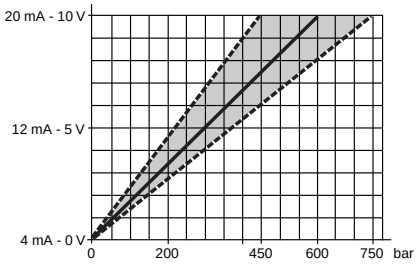
(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XMLF

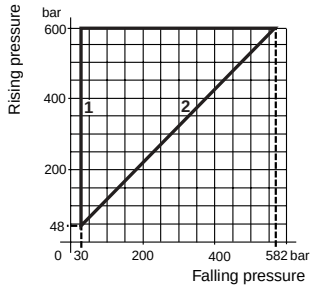
Analog and universal sensors, configurable with digital display
Rated 8700 psi (600 bar)

Type	Analog sensors		Universal sensors with adjustable differential. Solid state and analog outputs. (1)	
				
Adjustable range of switching point, PH (rising pressure)	—		696 to 8700 psi (48 to 600 bar)	
Analog output	4 to 20 mA	0 to 10 V	4 to 20 mA	0 to 10 V
Catalog numbers				
Fluid connection (2)				
1/4 in. BSP female	**XMLF600D2015**	**XMLF600D2115**	**XMLF600D2025**	**XMLF600D2125**
1/4 in. NPT female	**XMLF600D2016**	**XMLF600D2116**	**XMLF600D2026**	**XMLF600D2126**
SAE 7/16-20UNF	**XMLF600D2019**	**XMLF600D2119**	**XMLF600D2029**	**XMLF600D2129**
Weight, lb (kg)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)	1.30 (0.59)
Additional specifications not shown under "XMLF Specifications" on page 21				
Possible differential Subtract from PH to get PB	—		Minimum at low and high setting: 261 psi (18 bar) Maximum at high setting: 8265 psi (570 bar)	
Maximum allowable surge pressure	17,400 psi (1200 bar)			
Destruction pressure	26,100 psi (1800 bar)			
Rated supply voltage	24 Vdc			
Voltage limits	17 to 33 Vdc			
Current consumption	80 mA			
Output	—		Programmable, NPN or PNP, N.O. or N.C.	
Time delay	—		Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	—		200 mA	
Analog Output	4 to 20 mA or 0 to 10 V, depending on model. Maximum signal level adjustable between 6525 and 10,875 psi (450 and 750 bar)			
Electrical connection	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.			

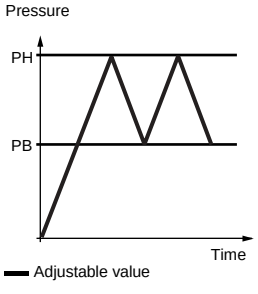
Analog output curves



Pressure sensor operating curves

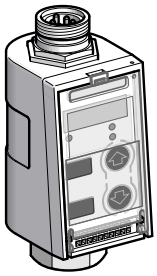
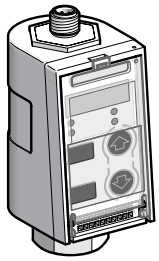


1 Maximum differential
2 Minimum differential

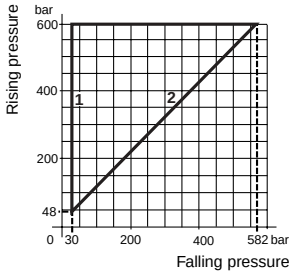


(1) Pressure sensors with adjustable differential for regulation between two thresholds. Solid state output and analog output.
(2) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See "Materials in contact with fluid" on page 11. Check for device compatibility with the fluid being controlled or monitored (see "Compatibility Tables" beginning on page 54).

Pressure switches, configurable with digital display
Rated 8700 psi (600 bar)

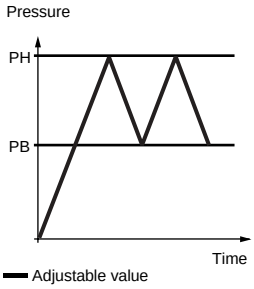
Type	**Pressure switches with adjustable differential and relay output (1)**	**Dual stage adjustable pressure switches with solid state outputs (2)**
		
Adjustable range of switching point(s), PH, or PH1 and PH2 (rising pressure)	696 to 8700 psi (48 to 600 bar)	696 to 8700 psi (48 to 600 bar)
Catalog numbers		
Fluid connection (3)		
1/4 in. BSP female	**XMLF600E2045**	**XMLF600D2035**
1/4 in. NPT female	**XMLF600E2046**	**XMLF600D2036**
SAE 7/16-20UNF	**XMLF600E2049**	**XMLF600D2039**
Weight, lb (kg)	1.54 (0.70)	1.30 (0.59)
Additional specifications not shown under “XMLF Specifications” on page 21		
Possible differential Subtract from: PH to get PB; PH1 and PH2 to get PB1 and PB2	Minimum at low and high setting: 261 psi (18 bar) Maximum at high setting: 8265 psi (570 bar)	For each stage: Minimum at low and high setting: 261 psi (18 bar) Maximum at high setting: 8265 psi (570 bar)
Maximum allowable surge pressure	17,400 psi (1200 bar)	
Destruction pressure	26,100 psi (1800 bar)	
Rated supply voltage	120 Vac	24 Vdc
Voltage limits	102 to 132 Vac	17 to 33 Vdc
Current consumption	32 mA	80 mA
Output	Relay	Programmable, NPN or PNP, N.O. or N.C.
Time delay	Adjustable time delay on trip and reset from 0 to 50 s, in increments of 1 s	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A)	200 mA
Electrical connection	SAE 7/8-16UN, 5-contact, male connector. For suitable female extension cables, see page 49.	M12, 4-contact, male connector. For suitable female connectors and extension cables, see page 49.

Pressure switch operating curves
(curve for each stage for dual stage pressure switches)

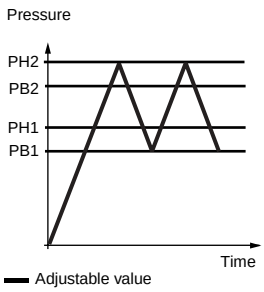


1 Maximum differential
2 Minimum differential

Pressure switches with relay output



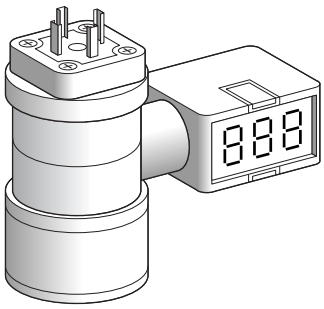
Dual stage pressure switches



(1) Pressure switches with adjustable differential for regulation between two thresholds. Relay output.
(2) Pressure switches with two adjustable stages and adjustable differential for each threshold. Solid state outputs.
(3) Fluids controlled: hydraulic fluids, fresh water, sea water, air, corrosive fluids; from +5 to +176 °F (–15 to +80 °C). See “Materials in contact with fluid” on page 11. Check for device compatibility with the fluid being controlled or monitored (see “Compatibility Tables” beginning on page 54).

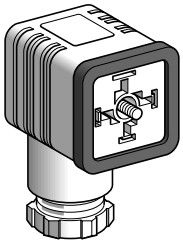
Electronic Pressure Sensors—NAUTILUS™
For Control Circuits, Type XML-E

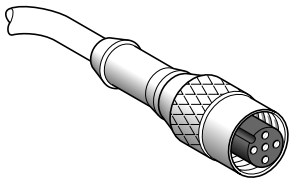
Units without display

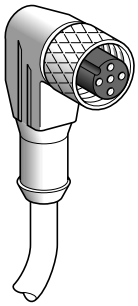


Accessories

Description	Pressure range	Catalog number	Weight
Digital display units for analog pressure sensors (Plugs-in between male and female connectors)	–14.5 to 0 psi (–1 to 0 bar)	**XMLEZM01**	0.22 lb (0.100 kg)
	0 to 14.5 psi (0 to 1 bar)	**XMLEZ001**	0.22 lb (0.100 kg)
	0 to 145 psi (0 to 10 bar)	**XMLEZ010**	0.22 lb (0.100 kg)
	0 to 362.5 psi (0 to 25 bar)	**XMLEZ025**	0.22 lb (0.100 kg)
	0 to 870 psi (0 to 60 bar)	**XMLEZ060**	0.22 lb (0.100 kg)
	0 to 1450 psi (0 to 100 bar)	**XMLEZ100**	0.22 lb (0.100 kg)
	0 to 3625 psi (0 to 250 bar)	**XMLEZ250**	0.22 lb (0.100 kg)
	0 to 8700 psi (0 to 600 bar)	**XMLEZ600**	0.22 lb (0.100 kg)





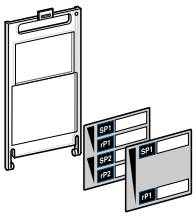


Connection accessories

Description	Length of cable	Color	Catalog number	Weight
Female connector type DIN 43650A	—	Black	**XZCC43FCP40B**	0.077 lb (0.035 kg)
Jumper cables with DIN 43650A connector on one end, straight M12 male connector on the other end for splitter boxes	39 in. (1 m)	Black	**XZCR1523062K1**	0.176 lb (0.080 kg)
	79 in. (2 m)	Black	**XZCR1523062K2**	0.243 lb (0.110 kg)
Pre-wired connectors with straight M12 female connector	79 in. (2 m)	Black	**XZCP1164L2**	0.254 lb (0.115 kg)
		Yellow	**XSZCD101Y** (1)	
	197 in. (5 m)	Black	**XZCP1164L5**	0.595 lb (0.270 kg)
		Yellow	**XSZCD102Y** (1)	
	394 in. (10 m)	Black	**XZCP1164L10**	1.146 lb (0.520 kg)
		Yellow	**XSZCD103Y** (1)	
Pre-wired connectors with elbowed M12 female connector	79 in. (2 m)	Black	**XZCP1264L2**	0.254 lb (0.115 kg)
		Yellow	**XSZCD111Y** (1)	
	197 in. (5 m)	Black	**XZCP1264L5**	0.595 lb (0.270 kg)
		Yellow	**XSZCD112Y** (1)	
	394 in. (10 m)	Black	**XZCP1264L10**	1.146 lb (0.520 kg)
		Yellow	**XSZCD113Y** (1)	

(1) XSZCD•••Y connector cables are UL rated.

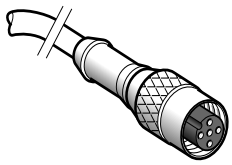
Configurable units, with digital display

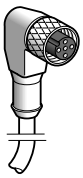


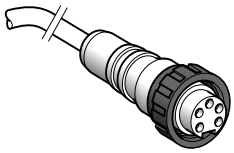
Replacement parts

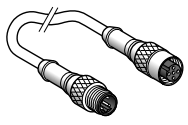
Description	Catalog number	Weight, lb (kg)
Transparent covers with legends	**XMLZL007**	0.044 (0.020)

Cabling accessories









Description		Length of cable	Catalog number	Weight, lb (kg)
Pre-wired M12, straight, female connectors		2 m	**XZCP1164L2**	0.253 (0.115)
		5 m	**XZCP1164L5**	0.595 (0.270)
		10 m	**XZCP1164L10**	1.146 (0.520)
Pre-wired M12, elbowed, female connectors		2 m	**XZCP1264L2**	0.253 (0.115)
		5 m	**XZCP1264L5**	0.595 (0.270)
		10 m	**XZCP1264L10**	1.146 (0.520)
Pre-wired 7/8-16UN, straight, female connectors		2 m	**XZCP1764L10**	0.407 (0.185)
		5 m	**XZCP1764L5**	0.895 (0.460)
		10 m	**XZCP1764L10**	1.984 (0.900)
M12 “Snap C”, straight, female connector [1]		—	**XZCC12FDM40V**	1.146 (0.520)
M12-M12 jumper cables with straight male connector, for splitter box	Straight female connector	1 m	**XZCR1511041C1**	0.143 (0.065)
		2 m	**XZCR1511041C2**	0.209 (0.095)
	Elbowed female connector	1 m	**XZCR1512041C1**	0.143 (0.065)
		2 m	**XZCR1512041C2**	0.209 (0.095)