

# Pressure sensors - Nautilus®

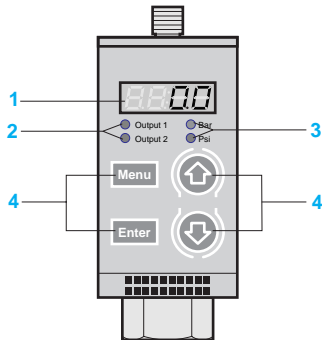
For control circuits, type XML-F

References :  
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## Presentation

## Presentation

Pressure sensors type **XML-F** are characterised by their ceramic pressure measuring cell. They are for pressure control of hydraulic oils, fresh water, sea water, air and corrosive fluids at pressures up to 600 bar.



- 1 Digital display for programming codes, parameter values and indication of measured pressure.
- 2 LED indicator(s) for providing status of pressure switch output(s)
- 3 LED indicators for pressure unit of measurement selected (bar or psi)
- 4 Selection keypads for the various functions and for setting parameters

Three menus enable the user to :

- configure ("PROG" menu) the various functions of the pressure sensors (and also, to access the "USER" menu detailed below),
- perform ("USER" menu) diagnostic operations and, for pressure switches, to set the switching point pressure values,
- read ("READ" menu) all the configuration details, together with the values set in the "PROG" and "USER" menus.

## Functions

Analogue pressure sensors **XML-F●●●D2●1●** have an analogue output, either 4...20 mA or 0...10 V. In addition to having a manual diagnostic function (see below), they also incorporate a digital input which provides a remote autotest function by connection to a PLC. When the product is operating correctly, the analogue output must, when testing, be close to 50 % of the unit size. The diagnostic function is also accessible manually.

Electronic pressure switches **XML-F●●●D2●2●** are pressure switches with an adjustable differential, for regulation between 2 thresholds, featuring a solid state output (programmable both for NPN or PNP and NO or NC) and a 4...20 mA or 0...10 V analogue output. They incorporate the manual diagnostic function (see below).

Electronic pressure switches **XML-F●●●D2●3●** are dual stage switches, with adjustable differential for each threshold, featuring 2 solid state outputs (programmable both for NPN or PNP and NO or NC). They incorporate the manual diagnostic function (see below).

Electronic pressure switches for a.c. control **XML-F●●●E2●4●** are switches with adjustable differential, for regulation between 2 thresholds, featuring an  $\sim 2.5$  A output relay (programmable for NO or NC). They incorporate the manual diagnostic function (see below).

Sensors type **XML-F** feature :

### ● Various configurable functions

For the display :

- pressure unit of measurement (bar or psi),
- response time (slow : display refreshes in 1% steps of the units size, normal : display refreshes in 0.5% steps of the units size or fast : display refreshes every 10 ms).

For the analogue output :

- response time (adjustable from 5 to 500 ms, in steps of 10 ms),
- maximum pressure of the output curve (adjustable from 75 to 125% of the units size).

For each solid state output :

- PNP or NPN logic,
- NO or NC output,
- time delay both on trip and on reset (adjustable from 0 to 50 s),
- response time (adjustable from 5 to 500 ms, in steps of 10 ms).

For the a.c. output via relay :

- NO or NC output,
- time delay both on trip and on reset (adjustable from 0 to 50 s),
- response time (adjustable from 5 to 500 ms, in steps of 10 ms).

### ● Manual diagnostic function enabling :

- checking correct operation of sensor
- reading the value of the maximum pressure peak that has occurred since the last reset to zero and also, deleting this value for a fresh reset.

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For control circuits, type XML-F

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## Characteristics

### Environment

<b>Conforming to standards</b>		CE, IEC/EN 60947-1, IEC/EN 60947-5-1, EN 50081, EN 50082, EN 61000-6-2, EN 61000-4-2/3/4/5/6/8/11
<b>Product certification</b>		UL, CSA
<b>Protective treatment</b>		Standard version "TC"
<b>Ambient air temperature</b>	°C	Operation : - 25...+ 80 (d.c. models) and - 25...+ 75 (a.c. models)
<b>Fluids or products controlled</b>		Hydraulic oils, air, fresh water, sea water, corrosive fluids, from - 15 to + 80°C
<b>Component materials of switch in contact with the fluid</b>		Stainless steel fluid entry, viton seal
<b>Operating position</b>		All positions
<b>Vibration resistance</b>		5 gn (25...200 Hz) and 35 gn (60...2000 Hz), conforming to IEC 68-2-6
<b>Shock resistance</b>		50 gn, conforming to IEC 68-2-27
<b>Electrical protection</b>		Against reverse polarity, short-circuit, overload and connection faults
<b>Degree of protection</b>		IP 67 conforming to IEC/EN 60529, NEMA 4/6/12/13
<b>Operating rate</b>	Hz	< 50
<b>Output response time</b>	ms	Adjustable from 5 to 500, in steps of 10 ms
<b>Service life</b>	op. cycles	> 10 million
<b>Precision</b>		Of the zero point : < ± 0.1% of the measuring range/°C Of the sensitivity : < ± 0.03% of the measuring range/°C
<b>Accuracy</b>		≤ 2 % of the measuring range
<b>Repeat accuracy</b>		≤ 0.5 % of the measuring range
<b>Display response time</b>		Adjustable. 3 options : slow (1% of the units size), normal (0.5% of the units size) or fast (refreshed every 10 ms)
<b>Fluid connections</b>		1/4" BSP (female), 1/4" NPT (female) or SAE 7/16-20UNF available, depending on model. Please call our Customer information centre on 0870 6088608 for full information.
<b>Electrical connections</b>		M12, "Snap-C" compatible, connector or SAE 7/8-16UN connector, depending on model.

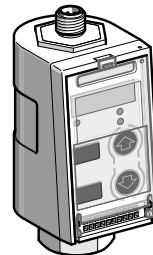
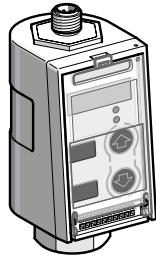
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Analogue sensors and vacuum switches  
 Size - 1 bar (- 14.5 psi)

Accessories :  
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References, characteristics

Type	Analogue sensors	Vacuum switches with adjustable differential. Solid state and analogue outputs (1)
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Adjustable range of switching point (PB) (Falling pressure)	-		- 0.07...- 1 bar (- 1.01...- 14.5 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

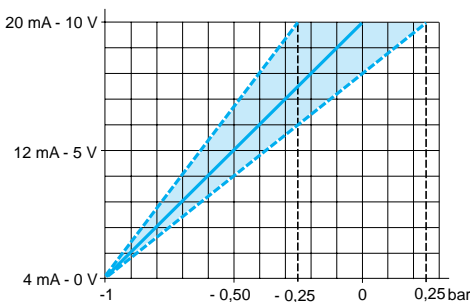
## References

Fluid connection (2)	1/4" BSP female	XML-FM01D2015	XML-FM01D2115	XML-FM01D2025	XML-FM01D2125
Weight (kg)		0.480	0.480	0.480	0.480

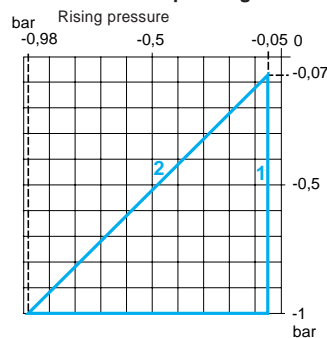
Complementary characteristics not shown under general characteristics (page 6/1)

Possible differential (add to PB to give PH)	-		Min. at low and high setting : 0.02 bar (0.29 psi) Max. at low setting : 0.95 bar (13.77 psi)	
Maximum permissible overpressure	3 bar (43.5 psi)			
Destruction pressure	5 bar (72.5 psi)			
Rated supply voltage	= 24 V			
Voltage limits	= 17...33 V			
Current consumption	80 mA		80 mA	
Output	- Programmable NPN or PNP and NO or NC Adjustable time delay on trip and on reset from 0 to 50 s, in steps of 1 second			
Time delay	-			
Switching capacity	200 mA			
Analogue output	4...20 mA or 0...10 V, depending on model. Maximum signal level adjustable between - 0.25 & 0.25 bar (- 3.62 & 3.62 psi)			
Electrical connection	M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26			

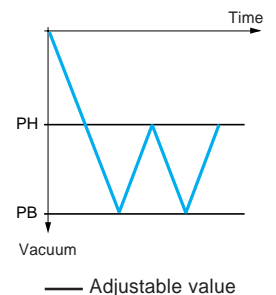
Analogue output curve



Vacuum switch operating curves



1 Maximum differential  
 2 Minimum differential



(1) Vacuum switches with adjustable differential for regulation between 2 thresholds. These switches incorporate a separate analogue output.

(2) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

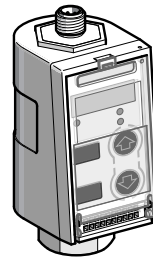
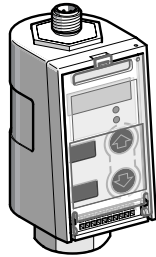
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Analogue sensors and pressure switches  
 Size 10 bar (145 psi)

Accessories :  
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 Dimensions :  
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References, characteristics

Type	Analogue sensors	Pressure switches with adjustable differential. Solid state and analogue outputs (1)
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Adjustable range of switching point (PH) (Rising pressure)	–		0.7...10 bar (10.15...145 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

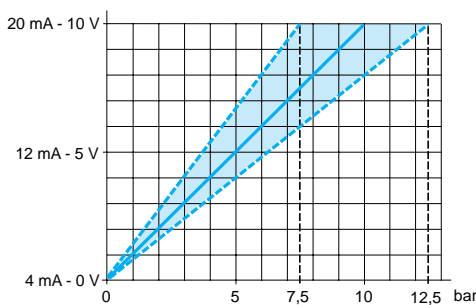
## References

Fluid connection (2)	1/4" BSP female	<b>XML-F010D2015</b>	<b>XML-F010D2115</b>	<b>XML-F010D2025</b>	<b>XML-F010D2125</b>
Weight (kg)		0.480	0.480	0.480	0.480

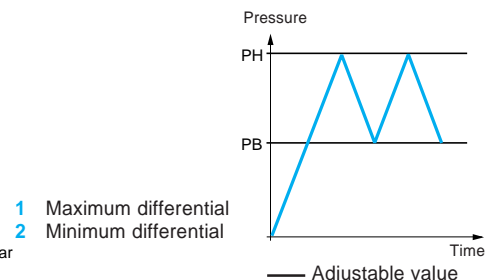
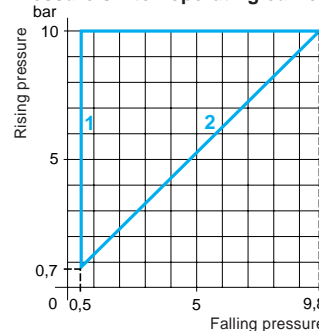
Complementary characteristics not shown under general characteristics (page 6/1)

Possible differential (subtract from PH to give PB)	–		Min. at low and high setting : 0.2 bar (2.9 psi) Max. at high setting : 9.5 bar (137.75 psi)	
Maximum permissible overpressure	40 bar (580 psi)			
Destruction pressure	60 bar (870 psi)			
Rated supply voltage	≡ 24 V			
Voltage limits	≡ 17...33 V			
Current consumption	80 mA		80 mA	
Output	–			
Time delay	–			
Switching capacity	–			
Analogue output	4...20 mA or 0...10 V, depending on model. Maximum signal level adjustable between 7.5 & 12.5 bar (108.75 & 181.25 psi)			
Electrical connection	M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26			

Analogue output curve



Pressure switch operating curves



(1) Pressure switches with adjustable differential for regulation between 2 thresholds. These switches incorporate a separate analogue output.

(2) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

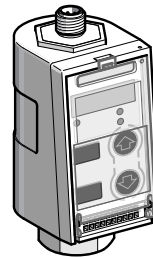
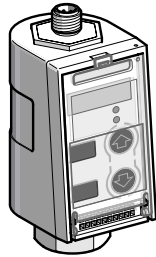
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Analogue sensors and pressure switches  
 Size 40 bar (580 psi)

Accessories :  
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 Dimensions :  
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 Schemes :  
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References, characteristics

Type	Analogue sensors	Pressure switches with adjustable differential. Solid state and analogue outputs (1)
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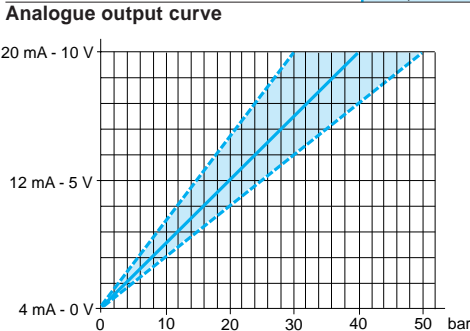
Adjustable range of switching point (PH) (Rising pressure)	–		2.8...40 bar (40.6...580 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

## References

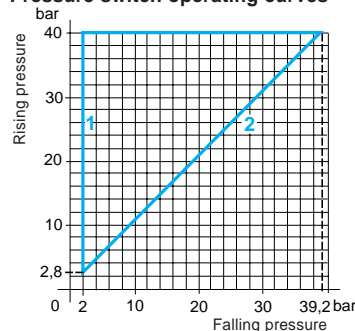
Fluid connection (2)	1/4" BSP female	<b>XML-F040D2015</b>	<b>XML-F040D2115</b>	<b>XML-F040D2025</b>	<b>XML-F040D2125</b>
Weight (kg)		0.500	0.500	0.500	0.500

Complementary characteristics not shown under general characteristics (page 6/1)

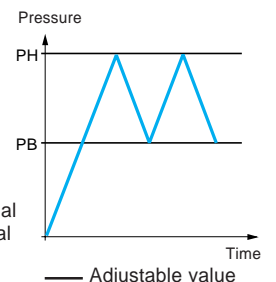
Possible differential (subtract from PH to give PB)	–		Min. at low and high setting : 0.8 bar (11.6 psi) Max. at high setting : 38 bar (551 psi)	
Maximum permissible overpressure	160 bar (2320 psi)			
Destruction pressure	240 bar (3480 psi)			
Rated supply voltage	≡ 24 V			
Voltage limits	≡ 17...33 V			
Current consumption	80 mA		80 mA	
Output	–			
Time delay	–			
Switching capacity	–		200 mA	
Analogue output	4...20 mA or 0...10 V, depending on model. Maximum signal level adjustable between 30 & 50 bar (435 & 725 psi)			
Electrical connection	M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26			



Pressure switch operating curves



1 Maximum differential  
 2 Minimum differential



(1) Pressure switches with adjustable differential for regulation between 2 thresholds. These switches incorporate a separate analogue output.  
 (2) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

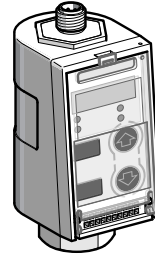
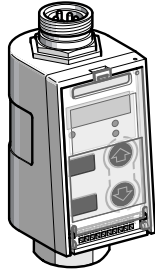
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Pressure switches with adjustable differential and dual stage pressure switches  
 Size 40 bar (580 psi)

Accessories :  
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 Dimensions :  
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 Schemes :  
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References, characteristics

Type	Pressure switches with adjustable differential and output relay (1)	Dual stage adjustable pressure switches with solid state outputs (2)
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Adjustable range of switching point(s) (PH or PH1 & PH2) (Rising pressure)	2.8...40 bar (40.6...580 psi)	2.8...40 bar (40.6...580 psi)
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## References

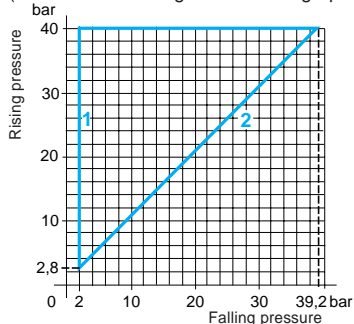
Fluid connection (3)	1/4" BSP female	XML-F040E2045	XML-F040D2035
Weight (kg)		0.610	0.500

Complementary characteristics not shown under general characteristics (page 6/1)

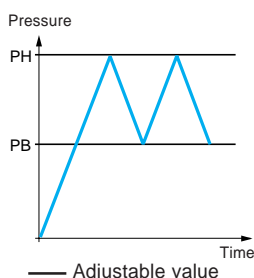
Possible differential (subtract from : - PH to give PB - PH1 & PH2 to give PB1 & PB2)	Min. at low and high setting : 0.8 bar (11.6 psi) Max. at high setting : 38 bar (551 psi)	For each stage : Min. at low and high setting : 0.8 bar (11.6 psi) Max. at high setting : 38 bar (551 psi)
Maximum permissible overpressure	160 bar (2320 psi)	
Destruction pressure	240 bar (3480 psi)	
Rated supply voltage	~ 110 V	≡ 24 V
Voltage limits	~ 102...132 V	≡ 17...33 V
Current consumption	32 mA	80 mA
Output	Relay	Programmable NPN or PNP and NO or NC
Time delay	Adjustable time delay on trip and on reset from 0 to 50 s, in steps of 1 second	
Switching capacity	2.5 A, AC-15, C300 (120 V - 1.5 A) SAE 7/8-16UN, 5 contact, male connector. For suitable female connectors, see page 6/26	200 mA M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26
Electrical connection		

## Pressure switch operating curves

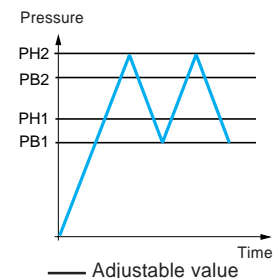
(curve for each stage for dual stage pressure switches)



Pressure switches with output relay



Dual stage pressure switches



(1) Pressure switches with adjustable differential for regulation between 2 thresholds. Relay output.

(2) Pressure switches with 2 adjustable stages and adjustable differential for each threshold. Solid state outputs.

(3) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

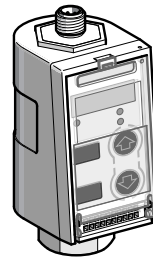
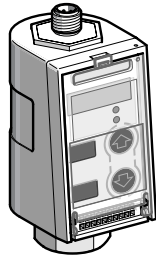
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Analogue sensors and pressure switches  
 Size 100 bar (1450 psi)

Accessories :  
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 Dimensions :  
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 Schemes :  
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References, characteristics

Type	Analogue sensors	Pressure switches with adjustable differential. Solid state and analogue outputs (1)
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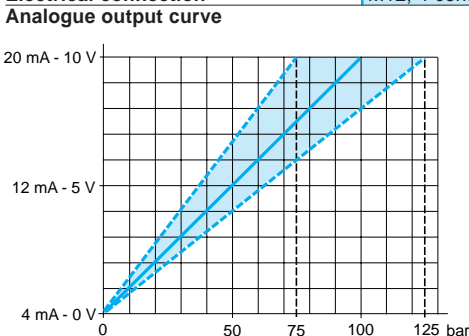
Adjustable range of switching point (PH) (Rising pressure)	-		7...100 bar (101.5...1450 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

## References

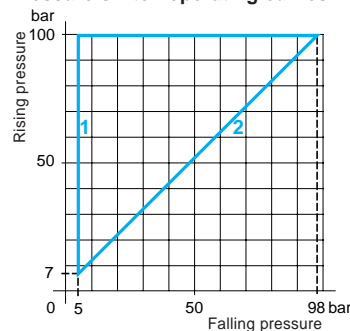
Fluid connection (2)	1/4" BSP female	<b>XML-F100D2015</b>	<b>XML-F100D2115</b>	<b>XML-F100D2025</b>	<b>XML-F100D2125</b>
Weight (kg)		0.500	0.500	0.500	0.500

Complementary characteristics not shown under general characteristics (page 6/1)

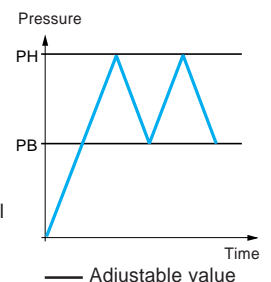
Possible differential (subtract from PH to give PB)	-		Min. at low and high setting : 2 bar (29 psi) Max. at high setting : 95 bar (1377.5 psi)	
Maximum permissible overpressure	400 bar (5800 psi)			
Destruction pressure	600 bar (8700 psi)			
Rated supply voltage	≡ 24 V			
Voltage limits	≡ 17...33 V			
Current consumption	80 mA		80 mA	
Output	- Programmable NPN or PNP and NO or NC			
Time delay	- Adjustable time delay on trip and on reset from 0 to 50 s, in steps of 1 second			
Switching capacity	- 200 mA			
Analogue output	4...20 mA or 0...10 V, depending on model. Maximum signal level adjustable between 75 & 125 bar (1087.5 & 1812.5 psi)			
Electrical connection	M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26			



**Pressure switch operating curves**



1 Maximum differential  
 2 Minimum differential



(1) Pressure switches with adjustable differential for regulation between 2 thresholds. These switches incorporate a separate analogue output.  
 (2) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

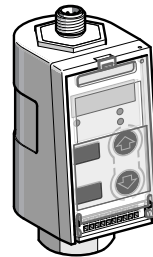
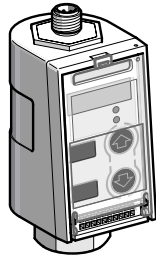
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Analogue sensors and pressure switches  
 Size 400 bar (5800 psi)

Accessories :  
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 Dimensions :  
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 Schemes :  
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References, characteristics

Type	Analogue sensors	Pressure switches with adjustable differential. Solid state and analogue outputs (1)
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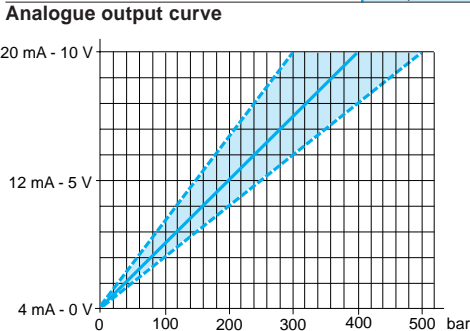
Adjustable range of switching point (PH) (Rising pressure)	–		28...400 bar (406...5800 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

## References

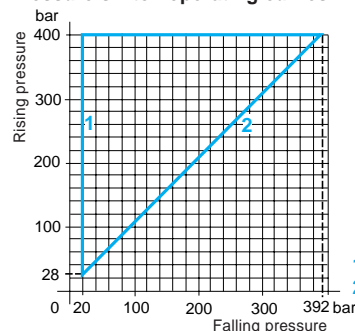
Fluid connection (2)	1/4" BSP female	<b>XML-F400D2015</b>	<b>XML-F400D2115</b>	<b>XML-F400D2025</b>	<b>XML-F400D2125</b>
Weight (kg)		0.590	0.590	0.590	0.590

Complementary characteristics not shown under general characteristics (page 6/1)

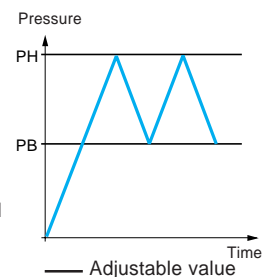
Possible differential (subtract from PH to give PB)	–		Min. at low and high setting : 8 bar (116 psi) Max. at high setting : 380 bar (5510 psi)	
Maximum permissible overpressure	1200 bar (17,400 psi)			
Destruction pressure	1800 bar (26,100 psi)			
Rated supply voltage	≡ 24 V			
Voltage limits	≡ 17...33 V			
Current consumption	80 mA		80 mA	
Output	–			
Time delay	–			
Switching capacity	–			
Analogue output	4...20 mA or 0...10 V, depending on model. Maximum signal level adjustable between 300 & 500 bar (4350 & 7250 psi)			
Electrical connection	M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26			



**Pressure switch operating curves**



1 Maximum differential  
 2 Minimum differential



(1) Pressure switches with adjustable differential for regulation between 2 thresholds. These switches incorporate a separate analogue output.  
 (2) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

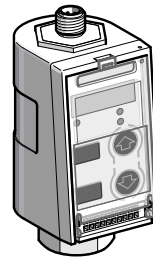
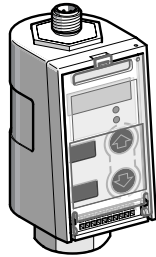
# Pressure sensors - Nautilus®

For control circuits, type XML-F  
 Analogue sensors and pressure switches  
 Size 600 bar (8700 psi)

Accessories :  
 page 6/26  
 Dimensions :  
 page 6/27  
 Schemes :  
 page 6/27

References, characteristics

Type	Analogue sensors	Pressure switches with adjustable differential. Solid state and analogue outputs (1)
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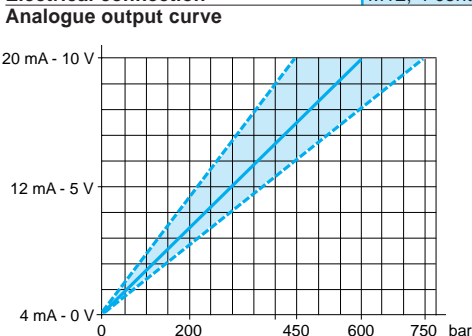
Adjustable range of switching point (PH) (Rising pressure)	–		42...600 bar (609...8700 psi)	
Analogue output	4-20 mA	0-10 V	4-20 mA	0-10 V

## References

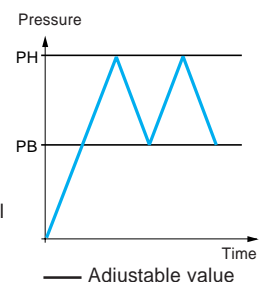
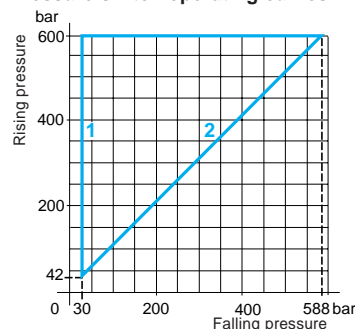
Fluid connection (2)	1/4" BSP female	<b>XML-F600D2015</b>	<b>XML-F600D2115</b>	<b>XML-F600D2025</b>	<b>XML-F600D2125</b>
Weight (kg)		0.590	0.590	0.590	0.590

Complementary characteristics not shown under general characteristics (page 6/1)

Possible differential (subtract from PH to give PB)	–		Min. at low and high setting : 12 bar (174 psi) Max. at high setting : 570 bar (8265 psi)	
Maximum permissible overpressure	1200 bar (17,400 psi)			
Destruction pressure	1800 bar (26,100 psi)			
Rated supply voltage	≡ 24 V			
Voltage limits	≡ 17...33 V			
Current consumption	80 mA		80 mA	
Output	–			
Time delay	–			
Switching capacity	–			
Analogue output	4...20 mA or 0...10 V, depending on model. Maximum signal level adjustable between 450 & 750 bar (6525 & 10,875 psi)			
Electrical connection	M12, 4 contact, male connector. For suitable female connectors and extension cables, see page 6/26			



Pressure switch operating curves



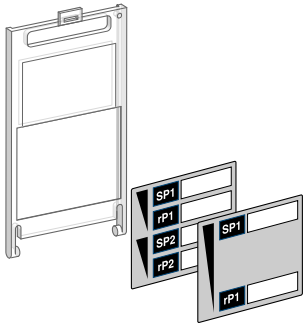
(1) Pressure switches with adjustable differential for regulation between 2 thresholds. These switches incorporate a separate analogue output.  
 (2) Fluids controlled : hydraulic oils, fresh water, sea water, air, corrosive fluids, from - 15 to + 80°C. Refer to component materials of switch in contact with the fluid, page 6/1. Check the compatibility of the switch for the fluid to be controlled (compatibility tables shown on pages 1/0 to 1/9).

# Pressure sensors - Nautilus®

For control circuits, type XML-F

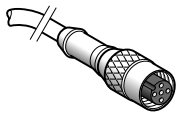
References of accessories

## Replacement parts



**XML-ZL007**

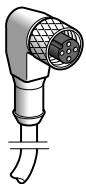
Description	Reference	Weight kg
<b>Transparent cover with legends</b>	<b>XML-ZL007</b>	0.020



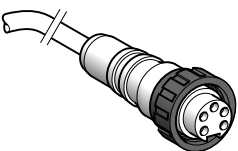
**XZ-CP1164L●**

## Cabling accessories

Description	Length of cable	Reference	Weight kg	
<b>Pre-wired M12, straight, female connector</b>	2 m	<b>XZ-CP1164L2</b>	0.115	
	5 m	<b>XZ-CP1164L5</b>	0.270	
	10 m	<b>XZ-CP1164L10</b>	0.520	
<b>Pre-wired M12, elbowed, female connector</b>	2 m	<b>XZ-CP1264L2</b>	0.115	
	5 m	<b>XZ-CP1264L5</b>	0.270	
	10 m	<b>XZ-CP1264L10</b>	0.520	
<b>Pre-wired 7/8" 16UN, straight, female connector</b>	2 m	<b>XZ-CP1764L2</b>	0.185	
	5 m	<b>XZ-CP1764L5</b>	0.460	
	10 m	<b>XZ-CP1764L10</b>	0.900	
<b>M12 "Snap-C", straight, female connector (1)</b>	–	<b>XZ-CC12FDM40V</b>	0.520	
<b>M12-M12 jumper cables with straight male connector, for splitter box</b>	Straight female connector	1 m	<b>XZ-CR1511041C1</b>	0.065
		2 m	<b>XZ-CR1511041C2</b>	0.095
	Elbowed female connector	1 m	<b>XZ-CR1512041C1</b>	0.065
		2 m	<b>XZ-CR1512041C2</b>	0.095



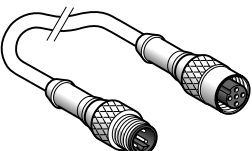
**XZ-CP1264L●**



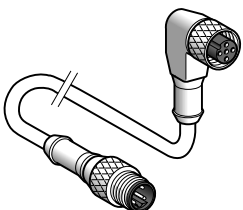
**XZ-CP1764L●**



**XZ-CC12FDM40V**



**XZ-CR1511041C●**



**XZ-CR1512041C●**

(1) Connector incorporating IDCs (Insulation Displacement Connectors) for simple and quick direct, in-line, connection to cable, without the need of a screwdriver or soldering iron.

# Pressure sensors - Nautilus®

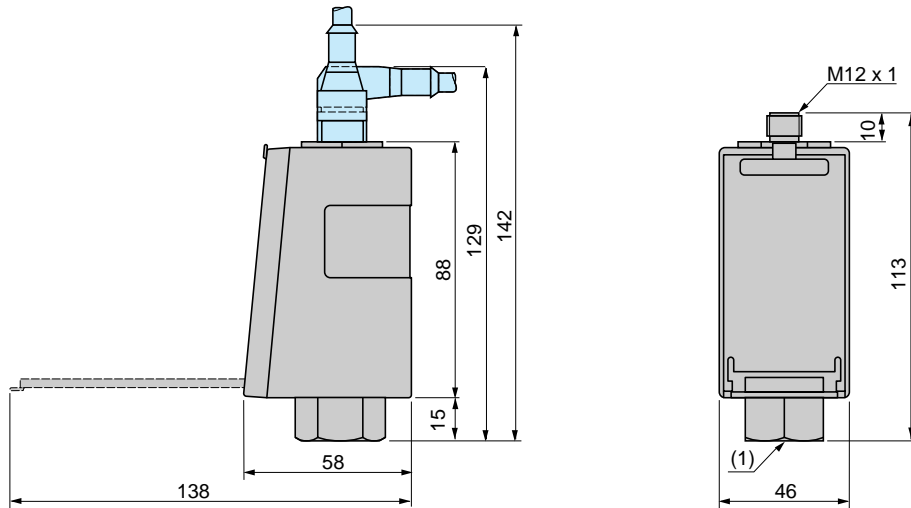
For control circuits, type XML-F

Dimensions, schemes

References :  
pages 6/2 to 6/25

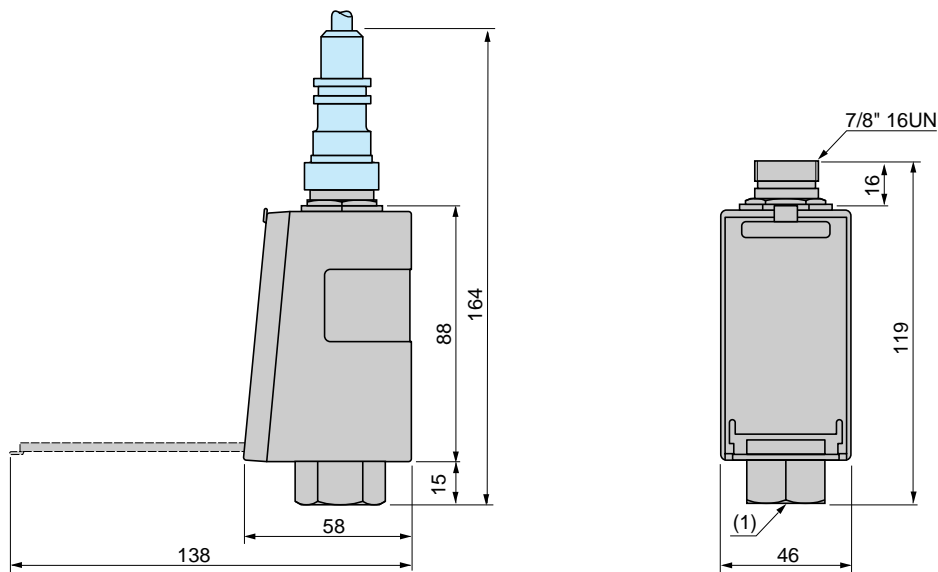
## Dimensions

XML-F●●●D2●●●



(1) Female fluid entry  
**XML-F●●●D2●●5** : 1/4" BSP  
For 1/4" NPT or SAE 7/16-20UNF, please call our Customer information centre on 0870 6088608.

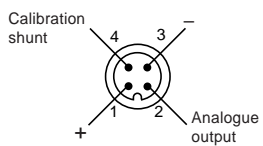
XML-F●●●E2●●●



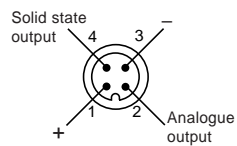
(1) Female fluid entry  
**XML-F●●●E2●●5** : 1/4" BSP  
For 1/4" NPT or SAE 7/16-20UNF, please call our Customer information centre on 0870 6088608.

## Connector schemes (pressure sensor connector pin view)

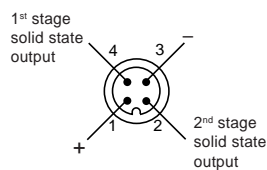
XML-F●●●D201●, F●●●D211●



XML-F●●●D202●, F●●●D212●



XML-F●●●D203●



XML-F●●●E204●

