# XMLB002C2S12

# pressure switch XMLB 2.5 bar - adjustable scale 2 thresholds - 1 C/O





#### Main

Range of product Product or component type Pressure sensor type Electromechanical pressure sensor Device short name  XMLB Pressure sensor size 2.5 bar  Controlled fluid Corrosive fluid (0160 °C) Fluid connection type G 1/4 (female) conforming to ISO 228 Electrical connection AWG gauge AWG 20AWG 14  Cable entry number 1 tapped entry (M20 x 1.5) forcable gland, cable outer diameter: 713 mm  Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Scale type Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Pressure actuator Diaphragm Materials in contact with fluid Enclosure material Enclosure material Zinc alloy IEC 60947-5-1 1,5 A, B300, AC-15 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0,1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 1,6 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 1,6 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 1,6 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 1,6 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 1,6 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1		
Pressure sensor type	Range of product	OsiSense XM
Device short name XMLB  Pressure sensor size 2.5 bar  Controlled fluid Corrosive fluid (0160 °C)  Fluid connection type G 1/4 (female) conforming to ISO 228  Electrical connection Screw-clamps terminals 1 x 0.52 x 2.5 mm²  AWG gauge AWG 20AWG 14  Cable entry number 1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm  Contacts type and composition  Product specific application Pressure switch type of operation Electrical circuit type Control circuit  Scale type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure 18 bar  Pressure actuator Diaphragm Materials in contact with fluid 316L stainless steel Enclosure material Zinc alloy  [In] rated current 3 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1	•	Electromechanical pressure sensor
Pressure sensor size  Controlled fluid  Corrosive fluid (0160 °C)  Fluid connection type  G 1/4 (female) conforming to ISO 228  Electrical connection  Screw-clamps terminals 1 x 0.52 x 2.5 mm²  AWG gauge  AWG 20AWG 14  Cable entry number  1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm  Contacts type and composition  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Adjustable differential Local display  With  Adjustable range of switching point on rising pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Destruction pressure  Materials in contact with fluid  1.75 bar  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	Pressure sensor type	Electromechanical pressure sensor
Controlled fluid Corrosive fluid (0160 °C) Fluid connection type G 1/4 (female) conforming to ISO 228 Electrical connection Screw-clamps terminals 1 x 0.52 x 2.5 mm² AWG gauge AWG 20AWG 14 Cable entry number 1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm Contacts type and composition Product specific application Pressure switch type of operation Electrical circuit type Control circuit Electrical circuit type Adjustable differential Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure Destruction pressure Destruction pressure Destruction pressure Diaphragm Materials in contact with fluid 31 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 (IEC 60947-5-1 (IE	Device short name	XMLB
Fluid connection type  Electrical connection  Screw-clamps terminals 1 x 0.52 x 2.5 mm²  AWG gauge  AWG 20AWG 14  Cable entry number  1 tapped entry (M20 x 1.5) forcable gland, cable outer diameter: 713 mm  Contacts type and composition  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Coal display  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact with fluid  In Tated current  In Sa00, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 (U = 250 V) conforming to EN/ IEC 6	Pressure sensor size	2.5 bar
Electrical connection Screw-clamps terminals 1 x 0.52 x 2.5 mm²  AWG gauge AWG 20AWG 14  Cable entry number 1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm  Contacts type and composition 1 C/O  Product specific application -  Pressure switch type of operation Electrical circuit type Control circuit  Scale type Adjustable differential  Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure 18 bar  Pressure actuator Diaphragm Materials in contact with fluid 316L stainless steel Enclosure material Zinc alloy  [In] rated current 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1	Controlled fluid	Corrosive fluid (0160 °C)
AWG gauge AWG 20AWG 14  Cable entry number 1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm  Contacts type and composition 1 C/O  Product specific application -  Pressure switch type of operation Electrical circuit type Control circuit  Scale type Adjustable differential  Local display With Adjustable range of switching point on rising pressure Adjustable range of switching point on falling pressure Possible differential maximum at high setting Maximum permissible accidental pressure 1 8 bar  Pressure actuator Diaphragm  Materials in contact with fluid 316L stainless steel Enclosure material Zinc alloy  [In] rated current 1.5 AWG 20AWG 142.15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1	Fluid connection type	G 1/4 (female) conforming to ISO 228
Cable entry number  1 tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm  Contacts type and composition  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Adjustable differential  Local display  With  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential  maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Persure actuator  Diaphragm  Materials in contact with fluid  Enclosure material  Zinc alloy  In a tapped entry (M20 x 1.5) forcable gland , cable outer diameter: 713 mm  1 C/O  1 C/O  Pressure switching point on between 2 thresholds  O.32.5 bar  With  O.32.5 bar  1.75 bar	Electrical connection	Screw-clamps terminals 1 x 0.52 x 2.5 mm <sup>2</sup>
contacts type and composition  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Adjustable differential  Local display  With  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential  maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Pressure actuator  Materials in contact with fluid  Enclosure material  Zinc alloy  [In] rated current  1 C/O  Regulation between 2 thresholds  Octorically  Regulation between 2 thresholds  Octorically  Adjustable range of switching differential  0.32.5 bar  0.142.29 bar  1.75 bar  1.75 bar  1.75 bar  1.75 bar  1.75 bar  2 bar  2 control circuit  0.32.5 bar  0.142.29 bar  1.75 bar  1.75 bar  2 control circuit  0.142.29 bar  0.142.29 bar  1.75 bar  1.75 bar  1.75 bar  2 control circuit  0.142.29 bar  1.75 bar  3 bar  2 control circuit  3 bar  1.75 bar  3 bar  2 control circuit  3 bar  1.75 bar  3 bar  2 control circuit  3 bar  1.75 bar  3 bar  3 bar  4 control circuit  3 bar  1.75 bar  3 bar  4 control circuit  3 bar  1.75 bar  3 bar  4 control circuit  5 bar  5 bar  6 control circuit  6 control circuit  8 control circuit  9 bar  1.75 bar  1.76 bar  1.77 bar  1.77 bar  1.78 bar  1.79 bar  1.79 bar  1.70	AWG gauge	AWG 20AWG 14
position  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Adjustable differential  Local display  With  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact with fluid  Enclosure material  In a AB300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1	Cable entry number	, , ,
cation  Pressure switch type of operation  Electrical circuit type		1 C/O
peration  Electrical circuit type  Scale type  Adjustable differential  Local display  With  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Possure actuator  Diaphragm  Materials in contact with fluid  Enclosure material  In a B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1		-
Scale type  Adjustable differential  Local display  With  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact with fluid  Enclosure material  In a A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1  1.5 A, B300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1  0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/		Regulation between 2 thresholds
Local display  Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact with fluid  Time alloy  In a local display  O.32.5 bar  O.142.29 bar  In bar  Pressure accidental pressure  P bar  Saccidental pressure  Diaphragm  Materials in contact with fluid  Time alloy  In alloy  In ated current  Jan alloy  Jan al	Electrical circuit type	Control circuit
Adjustable range of switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact with fluid  Enclosure material  In alloy  In ated current  John Ac-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1  0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	Scale type	Adjustable differential
switching point on rising pressure  Adjustable range of switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact with fluid  Enclosure material  In at a diagram of the problem of the pressure of the problem of the problem of the problem of the problem of the pressure of the problem	Local display	With
switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Diaphragm  Materials in contact PTFE with fluid 316L stainless steel  Enclosure material Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	switching point on rising	0.32.5 bar
maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  18 bar  Pressure actuator  Diaphragm  Materials in contact with fluid  The stainless steel  Enclosure material  In rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/  IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/  IEC 60947-5-1  0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	switching point on falling	0.142.29 bar
accidental pressure  Destruction pressure  18 bar  Pressure actuator  Diaphragm  Materials in contact with fluid  316L stainless steel  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/		1.75 bar
Pressure actuator  Diaphragm  Materials in contact with fluid  316L stainless steel  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	•	9 bar
Materials in contact with fluid 316L stainless steel  Enclosure material Zinc alloy  [In] rated current 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	Destruction pressure	18 bar
with fluid 316L stainless steel  Enclosure material Zinc alloy  [In] rated current 3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	Pressure actuator	Diaphragm
[In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/ IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/		· ·· —
IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/	Enclosure material	Zinc alloy
	[In] rated current	IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to EN/ IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/

#### Complementary

Possible differential minimum at low setting	0.16 bar (- 0.03 bar, + 0.05 bar)
Possible differential minimum at high setting	0.21 bar (- 0.03 bar, + 0.05 bar)
Maximum permissible pressure - per cycle	5 bar
Terminal block type	4 terminals
Operating rate	<= 120 cyc/mn at > 0 °C
Repeat accuracy	< 2 %

[Ui] rated insulation voltage	300 V conforming to UL 508 500 V conforming to EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
Auxiliary contacts operation	Snap action
Contacts material	Silver contacts
Resistance across terminals	< 25 mOhm conforming to IEC 255-7 category 3 < 25 mOhm conforming to NF C 93-050 method A
Short circuit protection	10 A cartridge fuse type gG (gl)
Mechanical durability	8000000 cycles
Setting	External
Height	113 mm
Depth	75 mm
Width	55 mm
Product weight	1.015 kg

### **Environment**

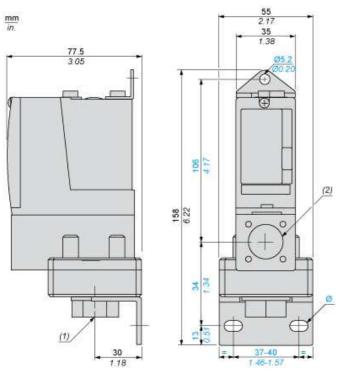
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Standards	CE EN/IEC 60947-5-1 UL 508
	CSA C22.2 No 14
Product certifications	BV
	CCC
	CSA
	LROS (Lloyds register of shipping)
	UL
	EAC
Protective treatment	TC (standard version)
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4070 °C
Operating position	Any position
Vibration resistance	4 gn (f = 30500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn conforming to IEC 60068-2-27
Class of protection against electric shock	Class I conforming to IEC 1140
	Class I conforming to IEC 536
	Class I conforming to NF C 20-030
IP degree of protection	IP66 conforming to EN/IEC 60529

# Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0928 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations



### **Dimensions**



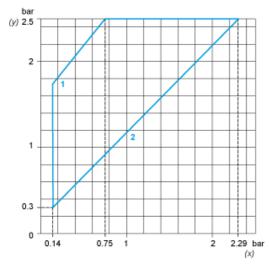
- (1) 1 fluid entry, tapped G1/4 (BSP female)
   (2) 1 electrical connections entry, tapped M20 x 1.5
   Ø: 2 elongated holes Ø 10.2 x 5.2

# Wiring Diagram

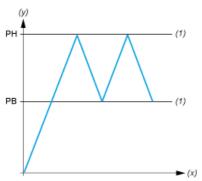
## **Terminal Model**



## **Operating Curves**



- (y) Rising pressure(x) Falling pressure1: Maximum differential
- 2: Minimum differential



- Pressure (y)
- Time (x)
- (1) Adjustable value
- PH: High point
  PB: Below point