# XMLB070D2S14

# pressure switch XMLB 70 bar - adjustable scale 2 thresholds - 1 C/O



#### Main

Range of product Telemecanique Pressure sensors XM  Product or component type  Pressure sensor type Electromechanical pressure sensor  Device short name XMLB  Pressure rating 70 bar  Controlled fluid Hydraulic oil (0160 °C)  Fluid connection type PT 1/4 (female)  Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm²  AWG gauge AWG 20AWG 14  Cable entry Cable gland 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 320 bar  Pressure actuator Piston  Materials in contact with fluid  Electrical circuit type  Tonto composition  160 bar  160 bar  FPM, FKM  Brass Steel  PTFE  Enclosure material Zinc alloy  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 250 V) conforming to IEC 60947-5-1	IVIAIII	
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Electrical connection Screw-clamps terminals, 1 x 0.52 x 2.5 mm²  AWG gauge AWG 20AWG 14  Cable entry Cable gland 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  Pressure actuator  Pressure actuator  Materials in contact with fluid  FPM, FKM Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  AWG 20AWG 14  Cable gland 713 mm  1 C/O  Control circuit  - Adjustable rensholds  - Control circuit  - Adjustable differential	Controlled fluid	Hydraulic oil (0160 °C)
AWG gauge  Cable entry  Cable gland 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  Pressure actuator  Materials in contact with fluid  FPM, FKM Brass Steel PTFE  Enclosure material  Zinc alloy  In Jace of Sul Question and Sul Conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	Fluid connection type	PT 1/4 (female)
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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  Destruction pressure  Pressure actuator  Materials in contact with fluid  Materials in contact with fluid  Enclosure material  Zinc alloy  In Jated current  Jan. A B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	Cable entry	Cable gland 713 mm
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Destruction pressure  Destruction pressure  Destruction pressure  Destruction pressure  Possible differential  Materials in contact with fluid  Electrical circuit type  Control circuit  Adjustable differential  770 bar  770 bar  2.361.2 bar  2.361.2 bar  50 bar  160 bar  160 bar  160 bar  160 bar  Pressure actuator  Piston  Materials in contact with fluid  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1  1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1  0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	•	-
Scale type  Local 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  Pressure actuator  Pressure actuator  Materials in contact with fluid  FPM, FKM  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  Adjustable differential 770 bar  770 bar  2.361.2 bar  50 bar  160 bar  160 bar  FPM, FKM  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC		Regulation between 2 thresholds
Local 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  Piston  Materials in contact with fluid  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 With  770 bar  770 bar  770 bar  770 bar  770 bar  770 bar  861.2 bar  961.2 bar  160 bar  160 bar  167 bar  168 bar  169 bar  160 bar  1	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  Piston  FPM, FKM Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, DC-13 (Ue = 250 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	Scale type	Adjustable differential
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switching point on falling pressure  Possible differential maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Materials in contact with fluid  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	switching point on rising	770 bar
maximum at high setting  Maximum permissible accidental pressure  Destruction pressure  320 bar  Pressure actuator  Piston  Materials in contact with fluid  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	switching point on falling	2.361.2 bar
Destruction pressure         320 bar           Pressure actuator         Piston           Materials in contact with fluid         FPM, FKM Brass Steel PTFE           Enclosure material         Zinc alloy           [In] rated current         3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC		50 bar
Pressure actuator  Materials in contact with fluid  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC		160 bar
Materials in contact with fluid         FPM, FKM Brass Steel PTFE           Enclosure material         Zinc alloy           [In] rated current         3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	Destruction pressure	320 bar
fluid  Brass Steel PTFE  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to IEC 60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	Pressure actuator	Piston
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60947-5-1 1.5 A, B300, AC-15 (Ue = 240 V) conforming to IEC 60947-5-1 0.1 A, R300, DC-13 (Ue = 250 V) conforming to IEC	Enclosure material	Zinc alloy
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## Complementary

Possible differential minimum at low setting	4.7 bar (- 0.4 bar, + 0.7 bar)
Possible differential minimum at high setting	8.8 bar (- 0.6 bar, + 0.8 bar)
Maximum permissible pressure - per cycle	90 bar
Terminal block type	4 terminals
Maximum operating rate	60 cyc/mn
Repeat accuracy	2 %

300 V conforming to UL 508 500 V conforming to IEC 60947-1 300 V conforming to CSA C22.2 No 14
<u> </u>
6 kV conforming to IEC 60947-1
Snap action
Silver contacts
25 MOhm conforming to IEC 255-7 category 3 25 mOhm conforming to NF C 93-050 method A
10 A cartridge fuse, type gG (gl)
6000000 cycles
External
113 mm
75 mm
35 mm
0.715 kg

## **Environment**

Standards	CSA C22.2 No 14 CE IEC 60947-5-1 UL 508
Product certifications	CCC[RETURN]CSA[RETURN]UL[RETURN]BV[RETURN]LROS (Lloyds register of shipping)
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 conforming to IEC 60068-2-6 (f = 30500 Hz)
Shock resistance	50 gn conforming to IEC 60068-2-27
Electrical shock protection class	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 IEC 60529

## Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	7.1 cm	
Package 1 Width	10.2 cm	
Package 1 Length	15.1 cm	
Package 1 Weight	768 g	

## Offer Sustainability

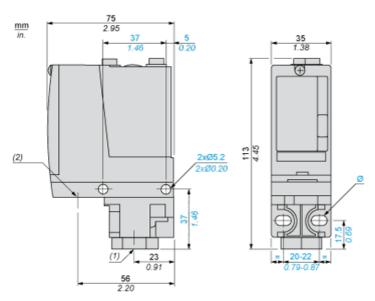
Green Premium product
WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
sustainability@tesensors.com

## Contractual warranty

Warranty	18 months	
vvarianty	10 111011113	



## **Dimensions**



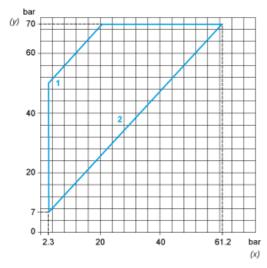
- (1) 1 fluid entry, tapped PT 1/4 (JIS B0203)
  (2) 1 electrical connections entry, tapped 1/2" PF (JIS B0202)
  Ø: 2 elongated holes Ø 5.2 x 6.7

## Wiring Diagram

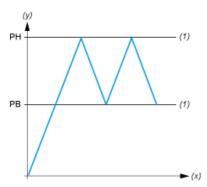
## **Terminal Model**



## **Operating Curves**



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



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