## XMLD070D1S12

pressure switch XMLD 70 bar - 2 stages fixed scale - 2 C/O





### Main

Product or component type  Pressure sensor type  Electromechanical pressure sensor  Device short name  XMLD  Pressure sensor size  Controlled fluid  Hydraulic oil (0160 °C)  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  Scale type  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Diameter: Augustian pressure  Destruction pressure  Diameter: Augustian pressure  Destruction pressure  Diameter: Augustian pressure  Destruction pressure  Destruction pressure  Destruction pressure  Destruction pressure  Diameter: Augustian pressure  Destruction pressure	D ( ) (	0.10
type Pressure sensor type	Range of product	OsiSense XM
Device short name XMLD  Pressure sensor size 70 bar  Controlled fluid Hydraulic oil (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 2 C/O snap action, silver contacts  Product specific application Dual stage  Electrical circuit type of operation  Electrical circuit type Control circuit  Scale type Fixed differential  Local display Without  Maximum permissible accidental pressure  Destruction pressure 320 bar  Pressure actuator Piston  Materials in contact with fluid FPM, FKM PTFE 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, DC-13 (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 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/	•	Electromechanical pressure sensor
Pressure sensor size  Controlled fluid  Hydraulic oil (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  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Materials in contact with fluid  FPM, FKM PTFE Steel  Enclosure material  Zinc alloy  [In] rated current  3 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 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/ 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
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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  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Destruction pressure  Pressure actuator  Materials in contact with fluid  FPM, FKM  PTFE  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/ 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/ 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/ 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/ IEC 60947-5-1  0.1 A, R300, DC-13 (Ue = 250 V) conforming to EN/ IEC 60947-5-1	Pressure sensor size	70 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  2 C/O snap action, silver contacts  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Materials in contact with fluid  Fixed brass  FPM, FKM  PTFE  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/  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/	Controlled fluid	Hydraulic oil (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  2 C/O snap action, silver contacts 2 C/O staggered, silver contacts  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Piston  Materials in contact with fluid  FPM, FKM PTFE Steel  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-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  2 C/O snap action, silver contacts 2 C/O staggered, silver contacts  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Piston  Materials in contact with fluid  FPM, FKM  PTFE  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/	Electrical connection	Screw-clamps terminals 1 x 0.52 x 2.5 mm²
contacts type and composition  Contacts type and composition  Product specific application  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Fixed differential  Local display  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Piston  Materials in contact with fluid  Enclosure material  Zinc alloy  [In] rated current  Outer diameter: 713 mm  2 C/O snap action, silver contacts  Detection of 2 single thresholds  Operation  Better diameter: 713 mm  2 C/O snap action, silver contacts  Withesholds  Breshults  Fixed differential  160 bar  accidental pressure  320 bar  Pressure actuator  Piston  Materials in contact  With fluid  FPM, FKM  PTFE  Steel  Enclosure material  Zinc alloy  [In] rated current  3 A, B300, AC-15 (Ue = 120 V) conforming to EN/  IEC 60947-5-1  0.1 A, R300, DC-13 (Ue = 240 V) conforming to EN/	AWG gauge	AWG 20AWG 14
Product specific application  Pressure switch type of operation  Electrical circuit type  Scale type  Local display  Maximum permissible accidental pressure  Destruction pressure  Pressure actuator  Pressure actuator  Materials in contact with fluid  Enclosure material  Enclosure material  In rated current  2 C/O staggered, silver contacts  Detection of 2 single thresholds  Control circuit  Example 160 bar  160 ba	Cable entry number	
cation  Pressure switch type of operation  Electrical circuit type  Control circuit  Scale type  Fixed differential  Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Destruction pressure  Pressure actuator  Materials in contact with fluid  FPM, FKM PTFE 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/		
operation  Electrical circuit type Control circuit  Scale type Fixed differential  Local display Without  Maximum permissible accidental pressure  Destruction pressure 320 bar  Pressure actuator Piston  Materials in contact with fluid FPM, FKM PTFE 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/		Dual stage
Scale type Fixed differential  Local display Without  Maximum permissible accidental pressure  Destruction pressure 320 bar  Pressure actuator Piston  Materials in contact with fluid FPM, FKM PTFE 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/	• • • • • • • • • • • • • • • • • • • •	Detection of 2 single thresholds
Local display  Without  Maximum permissible accidental pressure  Destruction pressure  Pressure actuator  Piston  Materials in contact with fluid  FPM, FKM PTFE 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/	Electrical circuit type	Control circuit
Maximum permissible accidental pressure  Destruction pressure  Pressure actuator  Piston  Materials in contact with fluid  PTFE 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/	Scale type	Fixed differential
Destruction pressure   320 bar	Local display	Without
Pressure actuator         Piston           Materials in contact with fluid         Brass FPM, FKM PTFE 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/	•	160 bar
Materials in contact with fluid         Brass FPM, FKM PTFE 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	320 bar
with fluid FPM, FKM PTFE 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	Piston
[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/		FPM, FKM PTFE
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/

### Complementary

Spread between 2 stages	2.846 bar	
Natural differential at low setting	5 bar	
Natural differential at high setting	9.5 bar	
Maximum permissible pressure - per cycle	90 bar	
Terminal block type	8 terminals	
Operating rate	060 cyc/mn at > 070 °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	

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	6000000 cycles	
Setting	External	
Height	113 mm	
Depth	85 mm	
Width	46 mm	
Product weight	0.715 kg	

### Environment

Standards	CE EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14	
Product certifications	CSA 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	-

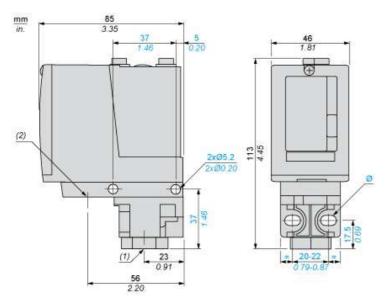
### Offer Sustainability

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



## XMLD070D1S12

### **Dimensions**



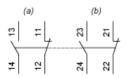
- (1) 1 fluid entry, tapped G1/4 (BSP female)
- (2) 1 electrical connections entry, tapped M20 x 1.5
   Ø: 2 elongated holes Ø 5.2 x 6.7

## Product data sheet **Connections and Schema**

# XMLD070D1S12

### Wiring Diagram

### **Terminal Model**

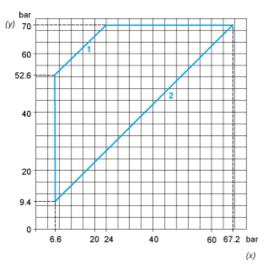


- Contact 1
- (a) (b) Contact 2

## XMLD070D1S12

### **Operating Curves**

### High Setting Tripping Points of Contacts 1 and 2



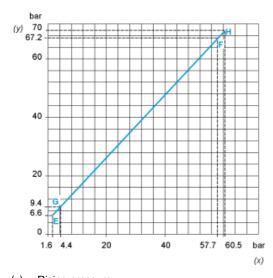
PH2 setting (rising pressure)

(x) 1: 2: PH1 setting (rising pressure)

Maximum differential

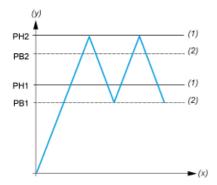
Minimum differential

### Natural Differential of Contacts 1 and 2



Rising pressure Falling pressure (x)

EF: Contact 1 GH: Contact 2



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