Electronic pressure sensors Nautilus XMLG

Catalogue september

04







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Electronic pressure sensors

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Electronic pressure sensors **Nautilus XMLG**

Manufacturers, gain in performance by equipping your machine with the new Nautilus pressure transmitters and electronic pressure switches. Economical and extremely **compact**, allowing considerably more installation freedom in the machine, they offer excellent industrial qualities (robustness, accuracy and reliability).

Pressure transmitters

Analogue output, 4 - 20mA or 0 - 10V. Sizes from -1 to 600 bar (-14.5 to 8700 psi).

Electronic pressure switches

Solid-state NC PNP or NPN digital output. Factory set switching thresholds. Sizes from -1 to 600 bar (-14.5 to 8700 psi).

+ compact!

Telemecanique pressure transmitters and pressure switches feature the same enclosure format. It is condensed technology in a very confined space for better integration in the machine. They are particularly designed for repetitive applications, hence their availability in bulk packs.

+ reliable!

Transmitters and pressure switches meet the most stringent requirements of users relating to high mechanical performances (ceramic technology), electromagnetic compatibility (excellent EMC characteristics) and safety of operation (case and parts in contact with the environment in stainless steel).









Main applications:

- Pneumatic and hydraulic installations,
- injection presses,
- industrial compressors,
- machine tools,
- pumps,
- water treatment,
- automobile construction, etc.

Benefit from the *decisive advantages* of the XMLG range

Gain in space

- Compact construction simplifying installation in the machine
 Gain in time
- Fast cabling using integrated quick connection system* or M12 connector
- Gain in costs
- Economical, attractively priced and sold in lots (bulk packs of 25 products, minimum ordering quantity: 50 products)

Gain in performance

- Very long service life and long-term stability
- Ceramic technology
- Excellent EMC characteristics
- Verified degree of protection: IP66, IP67
- Accuracy only slightly affected by temperature
- Wide temperature range
- Gain in confidence
 - Particularly suitable for demanding applications
 - Robust and safe product, excellent industrial quality
 - No fluid leakage in the event of the destruction pressure being exceeded

On request, products can be customised: other hydraulic connections instead of 1/4" male (NPT, female connection, etc.), other

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electrical connections, other pressure ranges (-1 to 600 bar), 0 - 10V analogue outputs, etc. Please consult your Regional Sales Office. Short-circuit and reverse polarity protection

Gain in exports

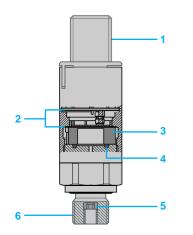
Conforms to standards and certifications: IEC, UL, CSA and CE marked for exporting your machines to the 4 corners of the world
 Worldwide presence of Schneider Electric network.

* Phoenix Contact Quickon type

Presentation

Electronic pressure sensors

Nautilus[®], type XML G For control circuits



Presentation

Pressure transmitters and pressure switches type XML G are characterised by their ceramic pressure measuring cell. The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge silk-screened on the ceramic. The change in resistance is then processed by the integrated electronics for providing either a digital or analogue output signal.

- 1 Electrical connection, example: M12
- 2 Electronics with EMC protection
- 3 Ceramic measuring cell
- 4 Seals
- 5 Leakage protection
- 6 Threaded connection

Functions

Pressure transmitters have an analogue 4-20 mA or 0-10 V output that is proportional to the measuring range.

Pressure and vacuum switches have a solid-state NPN or PNP normally closed (NC) output.

An anti-leakage system integrated in products for pressures ≥ 40 bar prevents fluid leakage in the event of the measuring cell destruction pressure being exceeded.

These compact products that offer excellent EMC characteristics are particularly suited to difficult industrial environments.

The selling in lots is mainly intended for machine manufacturers.

Important ordering requirement

XML G pressure and vacuum switches are factory set, the upper and lower switching thresholds must be stated when ordering.

Electronic pressure sensors Nautilus[®], type XML G For control circuits

Pre Trai Voltage limits Trai Pre Trai Ourrent consumption Pre Trai Current consumption Pre Trai Protective treatment Ambient air temperature For Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic	ansmitters 4-20 mA essure/vacuum switches ansmitters 0-10 V ansmitters 4-20 mA essure/vacuum switches ansmitters 0-10 V essure/vacuum switches ansmitters r operation r storage	V V V V mA mA °C °C	CE IEC/EN 60947-1, IEC/EN 60947-5-1 EN 50081-1, EN 50082-2, EN 61000-6-2 UL, CSA == 12/24 == 24 == 833 == 11.433 < 4 < 20 Standard version "TC" = 15+ 85
Rated supply voltage Trai Pre Trai Voltage limits Trai Pre Trai Ourrent consumption Pre Trai Trai Protective treatment Protective treatment Ambient air temperature For Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic	essure/vacuum switches ansmitters 0-10 V ansmitters 4-20 mA essure/vacuum switches ansmitters 0-10 V essure/vacuum switches ansmitters	V V V mA mA	UL, CSA == 12/24 == 24 == 833 == 11.433 <4 <20 Standard version "TC"
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Trai	nsmitters r operation	mA °C	< 20 Standard version "TC"
Protective treatment Ambient air temperature For Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic Electore	r operation	°C	Standard version "TC"
Ambient air temperature For Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic	•		
For Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic Elect	•		15 + 95
For Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic Elect	•		
Fluids or products controlled Component materials of switch in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic Elect		-	- 40+ 85
in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic Elect			Hydraulic oils, air, fresh water, sea water, corrosive fluids, from - 15 + 125 °C
in contact with fluid Operating position Vibration resistance Shock resistance Resistance to electromagnetic Elect			
Operating position Vibration resistance Shock resistance Resistance to electromagnetic Elect			Ceramic Al ₂ O ₃ , stainless steel type AISI 303, FPM (Viton), PPS (Leakage protection for P > 40 bar)
Shock resistance Resistance to electromagnetic Elec			All positions
Resistance to electromagnetic Electromagnetic	Vibration resistance		20 gn (92000 Hz) conforming to IEC 60068-2-6
· · ·	Shock resistance		25 gn (half sine wave 11 ms) conforming to IEC 60068-2-27
· · ·	ectrostatic discharges		Standard EN 61000-4-2, 15 kV in air, 8 kV on contact
	diated electromagnetic fields		Standard EN 61000-4-3, 200 V/m, 801000 MHz
	st transients		Standard EN 61000-4-4, 4 kV
Sur	rges		Standard EN 61000-4-5, 500 V 12 Ω, 1 kV 42 Ω
Cor	nducted disturbances,		Standard EN 61000-4-6, 30 V 0.1580 MHz
indu field	luced by radio-frequency lds		
Мас	agnetic fields		Standard EN 61000-4-8, 30 A/m, 50 Hz
Electrical protection			Against reverse polarity and load short-circuit
Rated impulse withstand voltage		kV	0.5
Degree of protection			IP 66, IP 67 conforming to IEC/EN 60529, NEMA 4
Output response time		ms	<2
Repeat accuracy			± 0.1% of the measuring range
Precision Tra	ansmitters		Combined sum of linearity, hysteresis and repeat accuracy $< \pm 0.3\%$ of the measuring range
			Setting tolerance of zero point and measuring range limit < \pm 0.3% of the measuring range
Pre	essure/vacuum switches		Setting accuracy < ±1% of the measuring range
Drift Of t	the zero point		$< \pm 0.015\%$ of the measuring range/°C
Of t	the sensitivity		< ± 0.015% of the measuring range/°C
Service life In m	millions of operating cycles		> 10
Fluid connection			G 1/4 A (1/4" BSP male) conforming to ISO7
Electrical connection			M12 connector or integrated connection (1)

(1) Phoenix Contact "Quickon" type integrated connection.

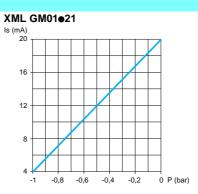
Electronic pressure sensors Nautilus[®] Pressure transmitters, type XML G With analogue output 4-20 mA Sizes from -1 to 1 bar (-14.5 to 14.5 psi)

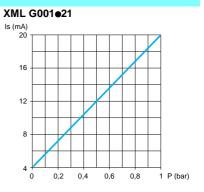
Units with analogue output

Pressure range (1)	Pressure range (1)) psi)	01 bar (014.5	psi)		
Type of electrical connect	ion (2)	M12	Integrated quick connection (3)	M12	Integrated quick connection (3)		
References							
Sold in packs of:	1	XML GM01D21	-	XML G001D21	-		
	bulk (4)	XML GM01D21TQ	(4) XML GM01Q21TQ	(4) XML G001D21TQ	(4) XML G001Q21TQ (4)		
Fluid connection (5)		1/4" BSP male					
Weight (kg)		0.095	0.095	0.095	0.095		
Complementary c	haracteristics not	shown under genera	al characteristic	S			
Rated supply voltage		<u> </u>					
Voltage limits		<u> </u>					
Analogue output (6)		420 mA, 2-wire te	420 mA, 2-wire technique				
Current consumption		< 20 mA	< 20 mA				
Maximum permissible acc	idental pressure	2.7 bar (39.1 psi)	2.7 bar (39.1 psi)		2.7 bar (39.1 psi)		
Destruction pressure		3 bar (43.5 psi)	3 bar (43.5 psi) 3 bar (43.5 psi)				
Electrical connection	By connector		XML GeeeD21: M12, male, 3-pin. For suitable female connectors, including pre-wired versions, see pages 14 and 15				
	Integrated	XML GeeeQ21: Int	egrated quick connectio	n <i>(3)</i>			
		(2) Other connection (3) Phoenix Contact (4) Sold in lots of 25, (5) Other fluid conne	 (1) Other pressure ranges, please consult us. (2) Other connections (AMP connector, cable), please consult us. (3) Phoenix Contact "Quickon" type integrated connection. (4) Sold in lots of 25, minimum quantity 50. (5) Other fluid connections (1/4" BSP female, 1/4" NPT), please consult us. Materials in contact with fluid, see page 5. 				

Materials in contact with fluid, see page 5.
(6) To order a pressure transmitter with a 0...10 V analogue output, replace 21 in the reference by 71 (bulk packs only). Example: XML GM01D21TQ becomes XML GM01D71TQ with a 0...10 V analogue output.

Output curves





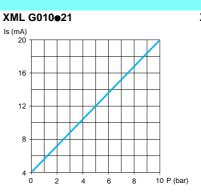
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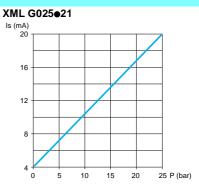
Electronic pressure sensors Nautilus[®] Pressure transmitters, type XML G With analogue output 4-20 mA Sizes from 10 to 25 bar (145 to 362.5 psi)

Units with analogue out	tput					
Pressure range (1)		010 bar (0145 ps	i)	025 bar (0362.5 p	osi)	
Type of electrical connectio	on (2)	M12	Integrated quick connection (3)	M12	Integrated quick connection (3)	
References			·			
Sold in packs of:	1	XML G010D21	-	XML G025D21	-	
	bulk (4)	XML G010D21TQ (4)	XML G010Q21TQ (4)	XML G025D21TQ (4)	XML G025Q21TQ (4)	
Fluid connection (5)		1/4" BSP male				
Weight (kg)		0.095	0.095	0.095	0.095	
Complementary ch	aracteristics not show	n under general	characteristics			
Rated supply voltage		<u></u> 12/24 V				
Voltage limits		833 V				
Analogue output (6)		420 mA, 2-wire tech	nique			
Current consumption		< 20 mA				
Maximum permissible accid	lental pressure	22 bar (319 psi)		56 bar (812 psi)		
Destruction pressure		25 bar (362.5 psi) 62.5 bar (906.2 psi)				
Electrical connection	By connector	XML GeeD21: M12, male, 3-pin. For suitable female connectors, including pre-wired versions, see pages 14 and 15				
	Integrated	XML GeeeQ21: Integrated quick connection (3)				
		 (1) Other pressure ranges, please consult us. (2) Other connections (AMP connector, cable), please consult us. (3) Phoenix Contact "Quickon" type integrated connection. (4) Sold in lots of 25, minimum quantity 50. (5) Other fluid connections (1/4" BSP female, 1/4" NPT), please consult us. Materials in contact with fluid, see page 5 (6) To order a pressure transmitter with a 010 V analogue output, replace 21 in the reference by 71 (bulk packs only). Example: XML G010D21TQ becomes XML G010D71TQ with a 010 V analogue output. 				

0...10 V analogue output.

Output curves





Accessories: page 14	Dimensions: page 15	Schemes: page 15	

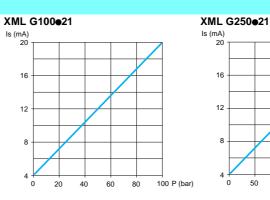
Telemecanique

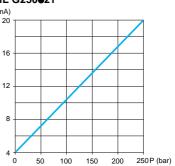
Electronic pressure sensors Nautilus[®] Pressure transmitters, type XML G With analogue output 4-20 mA Sizes from 100 to 250 bar (1450 to 3625 psi)

Units with analogue o	utput	Analogue sensors			
Pressure range (1)		0100 bar (01450	psi)	0250 bar (03625	psi)
Type of electrical connect	ion (2)	M12	Integrated quick connection (3)	M12	Integrated quick connection (3)
References					
Sold in packs of:	1	XML G100D21	-	XML G250D21	-
	bulk (4)	XML G100D21TQ (4)	XML G100Q21TQ (4)	XML G250D21TQ (4)	XML G250Q21TQ (4)
Fluid connection (5)		1/4" BSP male			
Weight (kg)		0.095	0.095	0.095	0.095
Complementary of	haracteristics not show	n under general	characteristics		
Rated supply voltage		<u></u> 12/24 V			
Voltage limits		833 V			
Analogue output (6)		420 mA, 2-wire tech	nnique		
Current consumption		< 20 mA			
Maximum permissible acc	idental pressure	225 bar (3262.5 psi)		560 bar (8120 psi)	
Destruction pressure		250 bar (3625 psi)		625 bar (9062.5 psi)	
Electrical connection	By connector	XML GeeD21: M12, see pages 14 and 15	XML GeeeD21: M12, male, 3-pin. For suitable female connectors, including pre-wired versions,		
	Integrated	XML GeeeQ21: Integrated quick connection (3)			
		 (1) Other pressure ranges, please consult us. (2) Other connections (AMP connector, cable), please consult us. (3) Phoenix Contact "Quickon" type integrated connection. (4) Sold in lots of 25, minimum quantity 50. (5) Other fluid connections (1/4" BSP female, 1/4" NPT), please consult us. Materials in contact with fluid, see page 5. (6) To order a pressure transmitter with a 010 V analogue output, replace 21 in the reference by 71 (bulk packs only). Example: XML G100D21TQ becomes XML G100D71TQ with a 			

by 71 (bulk packs only). E 0...10 V analogue output.

Output curves



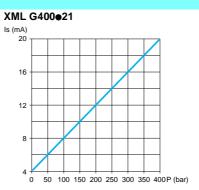


Units with analogue output

Electronic pressure sensors Nautilus[®] Pressure transmitters, type XML G With analogue output 4-20 mA Size 400 bar (5800 psi)

onno with analogue out	P				
Pressure range (1)		0400 bar (05800 psi)			
Type of electrical connection	n <i>(2)</i>	M12	Integrated quick connection (3)		
References					
Sold in packs of:	1	XML G400D21	-		
	bulk (4)	XML G400D21TQ (4)	XML G400Q21TQ (4)		
Fluid connection (5)		1/4" BSP male			
Weight (kg)		0.095	0.095		
Complementary ch	aracteristics not shown	under general characteristics			
Rated supply voltage		12/24 V			
Voltage limits		833 V			
Analogue output (6)		420 mA, 2-wire technique			
Current consumption		< 20 mA			
Maximum permissible accid	ental pressure	800 bar (11600 psi)			
Destruction pressure		900 bar (13050 psi)			
Electrical connection	By connector	XML Geee D21: M12, male, 3-pin. For suitable	female connectors, including pre-wired versions,		
		see pages 14 and 15			
	Integrated	XML GeeeQ21: Integrated quick connection (3)		
		 Other pressure ranges, please consult us. Other connections (AMP connector, cable), please consult us. Phoenix Contact "Quickon" type integrated connection. Sold in lots of 25, minimum quantity 50. Other fluid connections (1/4" BSP female, 1/4" NPT), please consult us. Materials in contact with fluid, see page 5. To order a pressure transmitter with a 010 V analogue output, replace 21 in the reference by 71 (bulk packs only). Example: XML G400D21TQ becomes XML G400D71TQ with a 010 V analogue output. 			
Output curves					

Output curves

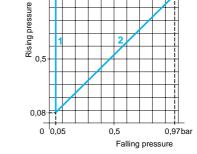


Accessories:	Dimensions:	Schemes:
page 14	page 15	page 15

Electronic pressure sensors Nautilus[®] Pressure and vacuum switches, type XML G Sizes from -1 to 1 bar (-14.5 to 14.5 psi)

Units with solid-state output (1)

Units with solid-state of	utput (1)				
Adjustable range of switchi	ng point (PH)	-0.081 bar (-1.16.	14.5 psi)	0.081 bar (1.161	4.5 psi)
Rising pressure (2) (8) Type of electrical connection	n <i>(3)</i>	M12	Integrated quick connection (4)	M12	Integrated quick connection (4)
References					
Only sold in bulk packs (8	NPN output	XML GM01D31TQ (2 XML GM01D41TQ (2	· · · ·	<i>i i i i i i i i i i</i>	XML G001Q31TQ (5)
Fluid connection (6)		1/4" BSP male			
Weight (kg)		0.095	0.095	0.095	0.095
	aracteristics not show				0.000
Switching thresholds (7)		Factory set			
Possible differential	min. at low setting	0.03 bar (0.44 psi)		0.03 bar (0.44 psi)	
	min. at high setting	0.03 bar (0.44 psi)		0.03 bar (0.44 psi)	
	max. at high setting	0.95 bar (13.77 psi)		0.95 bar (13.77 psi)	
Maximum permissible accid			2.7 bar (39.1 psi) 2.7 bar (39.1 psi)		
Destruction pressure		3 bar (43.5 psi)		3 bar (43.5 psi)	
Rated supply voltage		<u>—</u> 12/24 V			
Voltage limits		<u></u> 833 V			
Output			NP, normally closed (NC	2)	
Switching capacity		150 mA			
Current consumption		< 4 mA			
Electrical connection	By connector	see pages 14 and 15		e female connectors, inclu	iding pre-wired versions,
	Integrated		grated quick connection		
		 (2) Other pressure ran (3) Other connections (4) Phoenix Contact "C (5) Sold in lots of 25, r (6) Fluids or products -15+125 °C. Materials in contac Other fluid connect (7) State the switchir 	nges, please consult us. (AMP connector, cable. Quickon" type integrated ninimum quantity 50. controlled: hydraulic oils tt with fluid, see page 5. tions (1/4" BSP female, ng threshold settings v	l connection. , fresh water, sea water, 1/4" NPT), please cons	air, corrosive fluids, from sult us.
Operating curves					
		XML GM01ee1		XML G001ee1	
		Rising pressure bar -0,97 -0,5	-0,05 0	bar 1 2	



Dimensions page 15 page 15 age 14

-0,5

-1 bar

Falling pressure



1 Maximum differential 2 Minimum differential

Electronic pressure sensors Nautilus[®] Pressure switches, type XML G

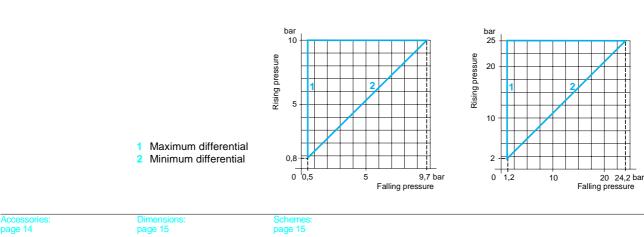
Sizes from 10 to 25 bar (11.6 to 362.5 psi)

Units with solid-state output (1) Adjustable range of switching point (PH) 0.8...10 bar (11.6...145 psi) 2...25 bar (29...362.5 psi) Rising pressure (2) Type of electrical connection (3) M12 Integrated guick M12 Integrated guick connection (4) connection (4)References Only sold in bulk packs (5) XML G010D31TQ (5 XML G010Q31TQ XML G025D31TQ XML G025Q31TQ NPN output PNP output XML G010D41TQ XML G010Q41TQ XML G025D41TQ XML G025Q41TQ Fluid connection (6) 1/4" BSP male 0.095 0.095 0.095 0.095 Weight (kg) Complementary characteristics not shown under general characteristics Switching thresholds (7) Factory set Possible differential 0.75 bar (10.9 psi) min. at low setting 0.3 bar (4.4 psi) min. at high setting 0.3 bar (4.4 psi) 0.75 bar (10.9 psi) max. at high setting 9.5 bar (137.75 psi) 23.8 bar (345.1 psi) Maximum permissible accidental pressure 22 bar (319 psi) 56 bar (812 psi) 25 bar (362.5 psi) 62.5 bar (906.2 psi) Destruction pressure --- 12/24 V Rated supply voltage Voltage limits --- 8...33 V Solid-state NPN or PNP, normally closed (NC) Output Switching capacity 150 mA Current consumption < 4 mA **Electrical connection** By connector XML Geee Dee: M12, male, 3-pin. For suitable female connectors, including pre-wired versions, see pages 14 and 15 Integrated XML-GeeeQee: Integrated quick connection (4) (1) Other types of output (normally open PNP, NPN...), please consult us. (2) Other pressure ranges, please consult us.
 (3) Other connections (AMP connector, cable...), please consult us. (4) Phoenix Contact "Quickon" type integrated connection. (6) Fluids or products controlled: hydraulic oils, fresh water, sea water, air, corrosive fluids, from -15...+125 °C. Materials in contact with fluid, see page 5. Other fluid connections (1/4" BSP female, 1/4" NPT ...), please consult us. (7) State the switching threshold settings when ordering.

Operating curves

XML G010ee1

XML G025ee1



Electronic pressure sensors Nautilus[®] Pressure switches, type XML G Sizes from 100 to 250 bar (1450 to 3625 psi)

Units with solid-state output (1)

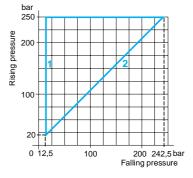
Adjustable range of switchin Rising pressure (2)	g point (PH)	8100 bar (11.614	50 psi)	20250 bar (29362	5 psi)	
Type of electrical connection	n <i>(3)</i>	M12	Integrated quick connection (4)	M12	Integrated quick connection (4)	
References						
Only sold in bulk packs (5)	NPN output	XML G100D31TQ (5)	XML G100Q31TQ (5)	XML G250D31TQ (5)	XML G250Q31TQ (5)	
	PNP output	XML G100D41TQ (5)	XML G100Q41TQ (5)	XML G250D41TQ (5)	XML G250Q41TQ (5)	
Fluid connection (6)		1/4" BSP male				
Weight (kg)		0.095	0.095	0.095	0.095	
Complementary cha	aracteristics not shown	under general	characteristics			
Switching thresholds (7)		Factory set				
Possible differential	min. at low setting	3 bar (43.5 psi)		7.5 bar (108.8 psi)		
	min. at high setting	3 bar (43.5 psi)		7.5 bar (108.8 psi)		
	max. at high setting	95 bar (1377.5 psi)		237.5 bar (3443.7 psi)		
Maximum permissible accide	ental pressure	225 bar (3262.5 psi)		560 bar (8120 psi)		
Destruction pressure		250 bar (3625 psi)		625 bar (9062.5 psi)		
Rated supply voltage		12/24 V				
Voltage limits		833 V				
Output		Solid-state NPN or PNP, normally closed (NC)				
Switching capacity		150 mA				
Current consumption		< 4 mA				
Electrical connection	By connector	XML GeeeDee: M12, r see pages 14 and 15	nale, 3-pin. For suitable f	emale connectors, inclu	ding pre-wired versions,	
	Integrated	°	ated quick connection (4	,		
	 (1) Other types of output (normally open PNP, NPN), please consult us. (2) Other pressure ranges, please consult us. (3) Other connections (AMP connector, cable), please consult us. (4) Phoenix Contact "Quickon" type integrated connection. (5) Sold in lots of 25, minimum quantity 50. (6) Fluids or products controlled: hydraulic oils, fresh water, sea water, air, corrosive fluids, t -15+125 °C. Materials in contact with fluid, see page 5. Other fluid connections (1/4" BSP female, 1/4" NPT), please consult us. (7) State the switching threshold settings when ordering. 			air, corrosive fluids, from		

Operating curves

12



XML G100ee1TQ



XML G250ee1TQ

. 97 bar

Falling pressure

50

8

0

5

1 Maximum differential 2 Minimum differential

Electronic pressure sensors Nautilus[®] Pressure switches, type XML G Size 400 bar (5800 psi)

Units with solid-state out	put (1)
----------------------------	---------





			0				
Adjustable range of switching point (PH) Rising pressure (2)		32400 bar (4645800 psi)	32400 bar (4645800 psi)				
Type of electrical connection (3)		M12	Integrated quick connection (4)				
References							
Only sold in bulk packs (5)							
NPN output		XML G400D31TQ (5)	XML G400Q31TQ (5)				
	PNP output	XML G400D41TQ (5)	XML G400Q41TQ (5)				
Fluid connection (6)	· · ·	1/4" BSP male					
Weight (kg)		0.095	0.095				
Complementary c	haracteristics not sh	own under general charac	teristics				
Switching thresholds (7)		Factory set					
Possible differential	min. at low setting	12 bar (174 psi)	12 bar (174 psi)				
	min. at high setting	12 bar (174 psi)	12 bar (174 psi)				
	max. at high setting	380 bar (5510 psi)	380 bar (5510 psi)				
Maximum permissible acc	cidental pressure	800 bar (11600 psi)	800 bar (11600 psi)				
Destruction pressure		900 bar (13050 psi)					
Rated supply voltage		<u> </u>					
Voltage limits		833 V					
Output		Solid-state NPN or PNP, normall	y closed (NC)				
Switching capacity		150 mA					
Current consumption		< 4 mA	< 4 mA				
Electrical connection	By connector	XML GeeeDee: M12, male, 3-pin see pages 14 and 15	XML GeeeDee: M12, male, 3-pin. For suitable female connectors, including pre-wired versions see pages 14 and 15				
	Integrated	XML GeeeQee: Integrated quick	XML GeeeQee: Integrated quick connection (4)				
		 (1) Other types of output (normally open PNP, NPN), please consult us. (2) Other pressure ranges, please consult us. (3) Other connections (AMP connector, cable), please consult us. (4) Phoenix Contact "Quickon" type integrated connection. 					

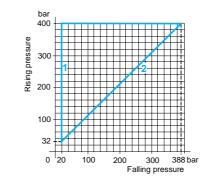
(4) Phoenix Contact "Quickon" type integrated connection.

(6) Fluids or products controlled: hydraulic oils, fresh water, sea water, air, corrosive fluids, from -15...+125 °C.

Materials in contact with fluid, see page 5. Other fluid connections (1/4" BSP female, 1/4" NPT...), please consult us. (7) State the switching threshold settings when ordering.

Operating curve

XML G400ee1TQ



1	Maximum differential
•	Minimum differential

2 Minimum differential

Accessories:	Dimensions:	Schemes:
page 14	page 15	page 15



Electronic pressure sensors Nautilus[®] Accessories and replacement part for sensors type XML G



XZ CP1141Le



XZ CC12FCM40B

Connection accessorie	S			
Description		Length of cable m	Reference	Weight kg
M12 "Snap-C", straight, female connector <i>(1)</i>		-	XZ CC12FDM40V	0.015
M12 female connector, metal clamping ring (2)	Straight	-	XZ CC12FDM40B	0.020
	Elbowed	-	XZ CC12FCM40B	0.020
Pre-wired M12 female connectors	Straight	2	XZ CP1141L2	0.090
		5	XZ CP1141L5	0.190
		10	XZ CP1141L10	0.370
	Elbowed	2	XZ CP1241L2	0.090
		5	XZ CP1241L5	0.190
		10	XZ CP1241L10	0.370

Replacement part			
Description		Unit reference	Weight kg
uick connection (3)	10	XML GZ001	0.025

(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.
(2) Connector with screw terminal connections.
(3) Phoenix Contact "Quickon" type connection.

532715	0	

XML GZ001

31622

XZ CC12FDM40V

Telemecanique

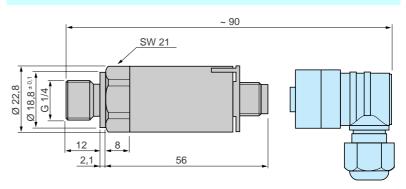
Dimensions, schemes

Electronic pressure sensors

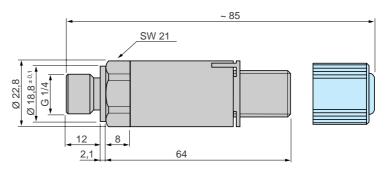
Nautilus® Transmitters and Pressure switches, type XML G For control circuits

Dimensions

XML GeeeDee, M12 x 1 connection



XML GeeeQee, integrated quick connection



Connector schemes (pressure sensor connector pin view)

Electronic pressure switches M12 3-wire technique (PNP)

4

Output

GND

Output

GNE

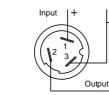
3-wire technique (NPN)

Input

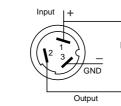
Input

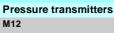
Integrated quick connection 3-wire technique (PNP)

GND

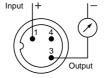


3-wire technique (NPN)

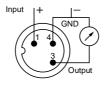




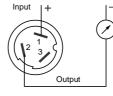
2-wire technique (4-20 mA)

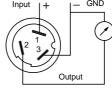


3-wire technique (0-10 V)



Integrated quick connection 2-wire technique (4-20 mA)





3-wire technique (0-10 V) GND Input

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