



I sensori di pressione



Electronic pressure sensors

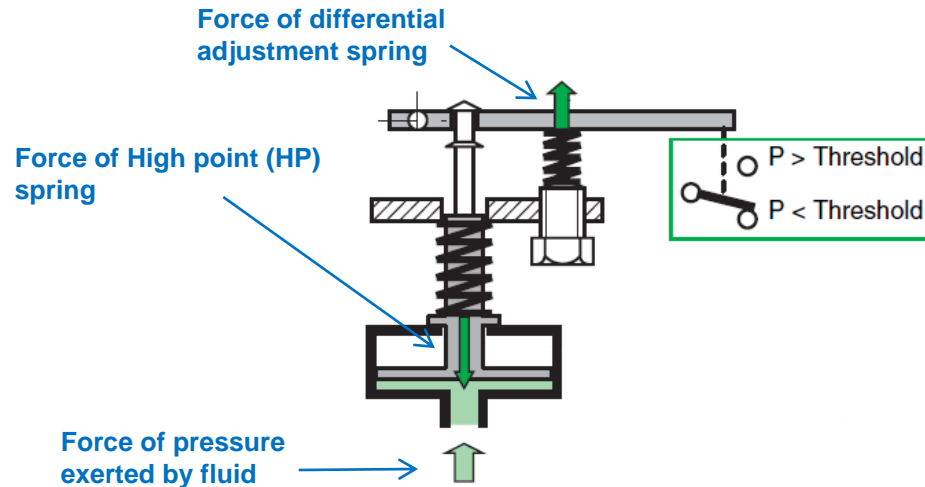


Electromechanical pressure sensors - Tecnologia



Rilevamento di pressione:

La pressione in entrata aziona una bilancia, la quale, tarata esternamente tramite una molla, va ad azionare un contatto elettromeccanico.
A seconda del valore della pressione, il contatto si apre o si chiude.



Electromechanical pressure sensors



- > Gamma completa di pressostati regolabili,
- > Robustezza e uso molto semplice dei pressostati XML ausiliari o XMX o di potenza XMP o FS/YG2
- > Tutti i range di pressione gamma da -1 a 600 bar,
- > Uscite on/off con contatti puliti
- > Certificazioni:



Control circuits



Power circuits

Electromechanical pressure sensors - Tecnologia



Pressostati e Vaquostati ausiliari XMLA/B/C/D per il controllando di fluidi come: olii idraulici, acqua, acqua di mare, aria, fluidi corrosivi o viscosi fino a 500 bar.

XMLA pressostati o vacuostati con differenziale fisso per una singola soglia con un contatto unipolare.

XMLB pressostati o vacuostati con differenziale regolabile tra due soglie con un contatto unipolare.

XMLC pressostati o vacuostati con differenziale regolabile tra due soglie con 2 contatti unipolari.

XMLD pressostati o vacuostati a due stadi, ciascuno stadio con un differenziale fisso e regolazione della soglia con 2 contatti unipolari (1 per ciascuno stadio)



Electromechanical pressure sensors Gamma



XMLA/B/C/D – Pressostati ausiliari, involucro in metallo, uscita a contatti puliti, regolazione del differenziale fino a 500 bar



Air, fresh water, sea water, corrosive fluids, viscous products, up to 160°C
depending on model

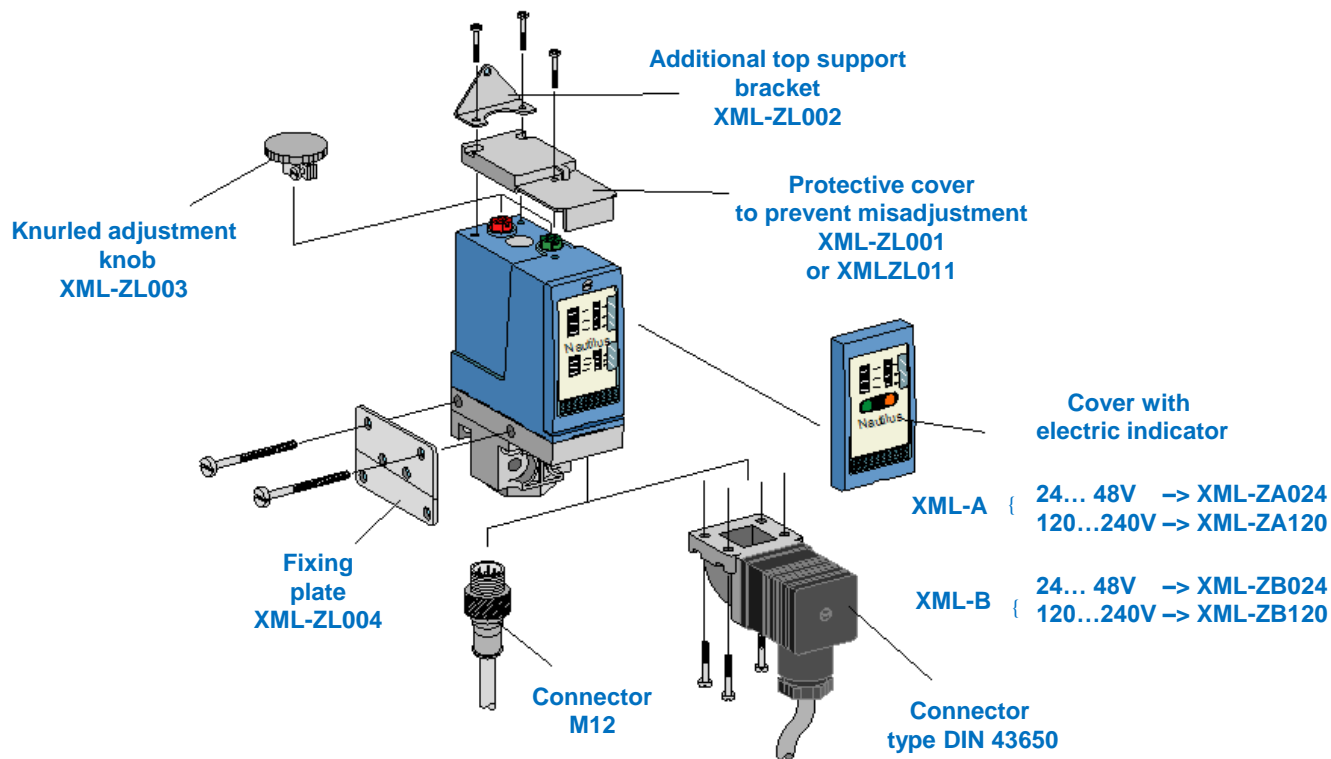
- 1 bar...500 bar (- 14.5 psi...7250 psi)

1 CO single-pole, snap action

2 CO single-pole, simultaneous,
snap action

2 CO single-pole, staggered, snap action

Electromechanical pressure sensors Gamma



XXM & XMA pressure switches



XXM e XMA – Pressostati ausiliari, involucro in plastica, uscita a contatti puliti, regolazione del differenziale fino a 25 bar per controllare aria o acqua

- ✓ I pressostati tipo XXM hanno una vite di regolazione interna accessibile solo dopo aver rimosso il coperchio, sono disponibili con riarmo manuale o automatico.
- ✓ I pressostati tipo XMA hanno una vite di regolazione esterna accessibile senza rimuovere il coperchio.



XMP pressure switches Gamma






Size (bar)			6		12		25		
Setting range of upper limit (PH) (bar)			1...6		1.3...12		3.5...25		
Fluids controlled			Air, water (fresh water, sea water) from 0...+70°C						
Ambient air temperature			For operation: - 25...+ 70°C. For storage: - 40...+ 70°C						
Decompression valve / ONOff knob			without	with	without	with	without		
Fluid connection			G 1/4 (BSP female)	4 x G 1/4 (BSP female)	G 1/4 (BSP female)	4 x G 1/4 (BSP female)	G 1/4 (BSP female)		
Electrical connection			Screw terminals, 2 tapped entries for n° 13 (DIN Pg 13.5) cable gland						
Degree of protection			IP 54			IP 54		IP 54	
Product certification			CE - CCC						
Rated insulation voltage			Ui = 500 V						
Electrical durability	Power	1.5 kW	400 V AC 3-phase: 1 000 000 operating cycles						
		2.2 kW	230 V AC 3-phase: 600 000 operating cycles						
		3 kW	400 V AC 3-phase: 700 000 operating cycles						
		3 kW	400 V AC 3-phase: 500 000 operating cycles						
Dimensions (mm) H x W x D			106 x 57 x 97.5	138 x 57 x 97.5	106 x 57 x 97.5	138 x 57 x 97.5	126 x 57 x 97.5		
Type of contacts	2 NC 2-pole, snap action contact		XMPA06B2131	–	XMPA12B2131	XMPE12B2431	XMPA25B2131		
	3 NC 3-pole, snap action contact		XMPA06C2131	XMPE06C2431	XMPA12C2131	XMPE12C2431	XMPA25C2131		
Possible differential (bar)	Min. at low setting		0.8	0.8	1	1	3.4		
	subtract from PH to give PB		1.2	1.2	1.7	1.7	4.5		
	Max. at high setting		4.2	4.2	8.4	8.4	20		

FTG, FSG & FYG pressure switches Gamma



Degree of protection Size (bar)		IP 20			IP 65		
		4.6	7	10.5	4.6	7	10.5
Setting range of upper limit (PH) (bar)		1.4...4.6	2.8...7	5.6...10.5	1.4...4.6	2.8...7	5.6...10.5
Fluids controlled		Water (fresh water, sea water) from 0...+55°C					
Electrical connection		Screw terminals, 2 cable entries with grommet			Screw terminals, 2 tapped entries for n° 13 (DIN Pg 13.5) cable gland		
Product certification		CE					
Ambient air temperature		For operation: 0...+ 50°C. For storage: - 30...+ 80°C					
Rated operational characteristics (conforming to EN IEC 60947-5-1)		Ie = 10 A, Ue = 250 V AC					
Power rating of controlled motors	110 V	AC 2-pole, single-phase	0.75 kW (1 HP)			0.75 kW (1 HP)	
		AC 2-pole, 3-phase	1.1 kW (1.5 HP)			1.1 kW (1.5 HP)	
230 / 400 V	AC 2-pole, single-phase	1.5 kW (2 HP)			1.5 kW (2 HP)		
	AC 2-pole, 3-phase	2.2 kW (3 HP)			2.2 kW (3 HP)		
Dimensions (mm) H x W x D		96/105 x 72 x 102	94 x 72 x 102		115 x 72 x 106	115 x 72 x 106	
Fluid connection	G 1/4 (BSP female)	FSG2	FYG22	FYG32	FSG2NE	FYG22NE	FYG32NE
	R 1/4 (BSP male)	FSG9	FYG29	FYG39	–	–	–
	G 3/8 (BSP female) rotating nut	–	–	–	FSG2NEG	–	–
Possible differential (bar) subtract from PH to give PB	At low setting	1 min. - 2.1 max.	1.2 min. - 2.3 max.	1.9 min. - 3 max.	1 min. - 2.1 max.	1.2 min. - 2.3 max.	1.9 min. - 3 max.
	At middle setting	1.1 min. - 2.2 max.	1.4 min. - 2.5 max.	2.1 min. - 3.2 max.	1.1 min. - 2.2 max.	1.4 min. - 2.5 max.	2.1 min. - 3.2 max.
	At high setting	1.2 min. - 2.3 max.	1.6 min. - 2.7 max.	2.3 min. - 3.4 max.	1.2 min. - 2.3 max.	1.6 min. - 2.7 max.	2.3 min. - 3.4 max.

Electronic pressure sensors

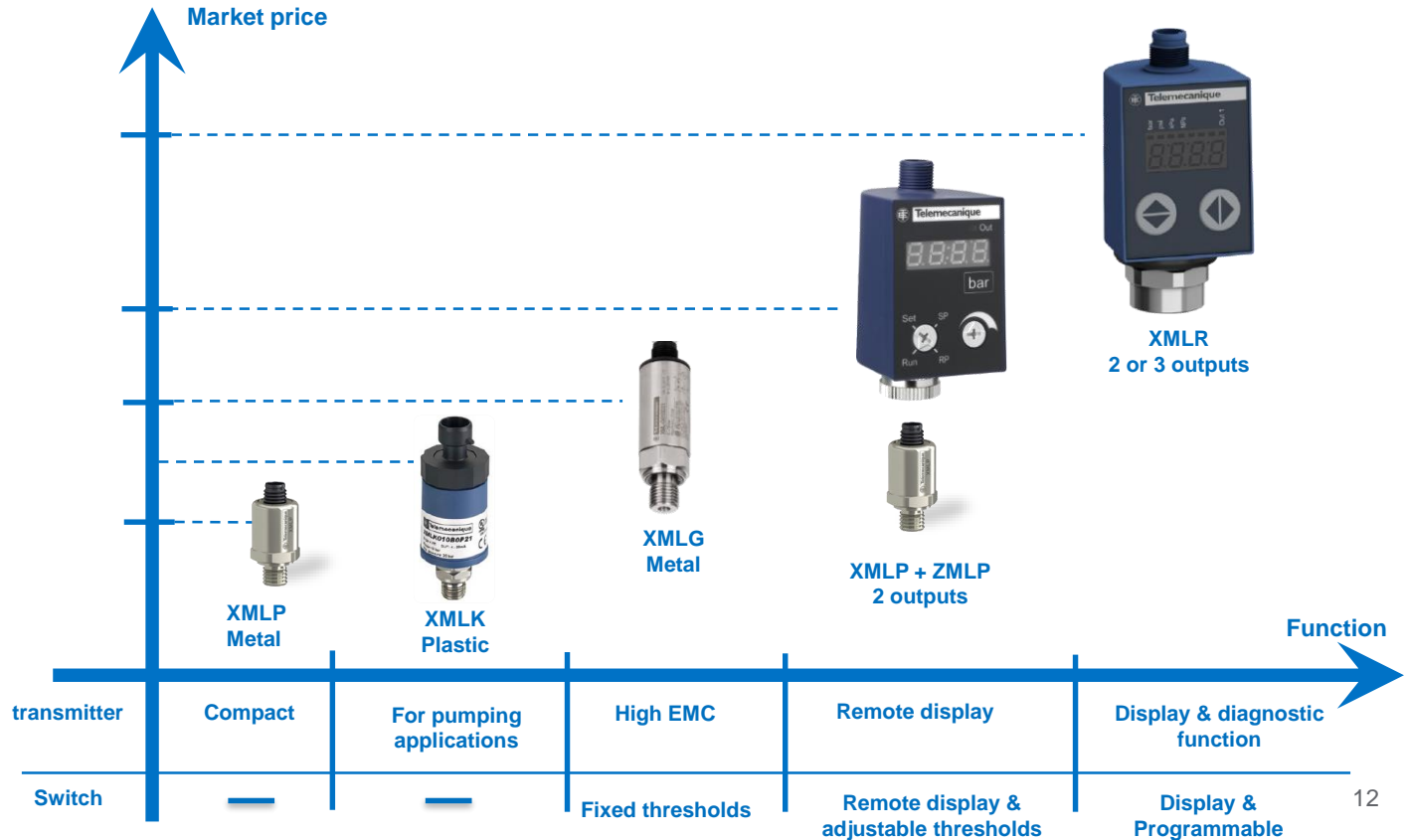
- > I di pressostati elettronici sono altamente resistenti alle sovrappressioni in quanto includono lo smorzatore di impulsi che lo protegge dagli effetti di picchi di pressione.
- > Involucri Inox o plastic,
- > Gamma da -1 sino a 600bar
- > Certificazioni:   





Electronic pressure sensors Gamma

Functions overview



Electronic pressure sensors Gamma

XMLG – Involucro in Inox, uscita analogica e on/off siano a 400bar



Air, fresh water, sea water, hydraulic oils, corrosive fluids (- 15...+ 125°C)

- 1 bar...400 bar (- 14.5 psi...5800 psi)

Analogue, 4...20 mA or 0...10 V

Solid-state, PNP or NPN, NC output
150 mA, \pm 12/24 V

XML-G

Uscita analogica o digitale pre-tarato alta resistenza EMC, range di gamma da -1 a 400bar

XMLK – Involucro in plastica, IP52, analogica siano a 25bar



Air, fresh water (0...+ 80°C)

0...25 bar (0...362 psi)

0... 300 psi (0... 20.7 bar)

Analogue, 4...20 mA or 0...10 V

XML-K

uscita analogica Impiego: per compressori e pompe idrauliche, range di gamma da 0 a 25bar

Electronic pressure sensors Gamma



XMLP

Analogue output types

- 0,5-4,5V ratiometric
- or 4-20mA
- or 0-10V

Ixef® Plastic
electrical connector

Housing
316L Stainless steel
IP65, IP67 or IP69K
(depending on connector)

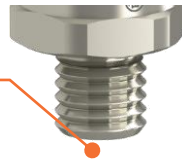
M12 male
4 pins

Product marking by
laser engraving

Fluid entry
Stainless steel 316L

G1/4A
DIN 3852-E male

1/4"-18NPT
male



Pressure ranges:

- -1...0 bar
- 0...0,5 bar
- 0...1 bar
- 0...2,5 bar
- 0...4 bar
- 0...6 bar
- -1...+1 bar
- -1...+5bar
- -1...9 bar
- 0...10 bar
- 0...16 bar
- 0...25 bar
- 0...60 bar
- 0...100 bar
- 0...250 bar
- 0...400 bar
- 0...600 bar

Electronic pressure sensors Gamma

Mobile
Equipment



XMEP

Analogue output types

- 0,5-4,5V ratiometric
- or 4-20mA
- or 0-10V

Ixef® Plastic
electrical connector

M12 male
4 pins

Deutsch
DT04-3P



AMP
Superseal 1,5
3 pins



AMP
Junior Timer
3 pins

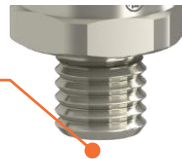
Housing
316L Stainless steel
IP65, IP67 or IP69K
(depending on connector)

Product marking by
laser engraving

Fluid entry
Stainless steel 316L

G1/4A
DIN 3852-E male

1/4"-18NPT
male



Pressure ranges:

- 0...60 bar
- 0...100 bar
- 0...250 bar
- 0...400 bar
- 0...600 bar

Electronic pressure sensors Gamma



ZMLP

M12 maschio (output)



ZML-P

per trasduttori elettronici XMLG/E/P/K

..e per tutti i trasduttori in commercio
connessione M12 e uscita 4-20mA.

Electronic pressure sensors Gamma



XMLR

Uscita analogica o on/off

- or 4-20mA
- or 0-10V
- PNP – NPN NO/NC

Ixef® Plastic
electrical connector

Housing Plastic
IP65, IP67 or IP69K
(depending on connector)

- Funzioni programmabili:
- Soglie differenziale,
 - Uscita
 - Ritardo
 - Shunt
 -

M12 male
4 pins

Display integrato

Fluid entry
Stainless steel 316L

G1/4A



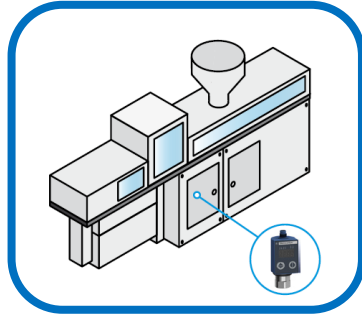
Pressure ranges:

- - 1...0 bar
- 0...1 bar
- 0...2,5 bar
- 0...10 bar
- 0...16 bar
- 0...25 bar
- 0...40 bar
- 0...250 bar
- 0...400 bar

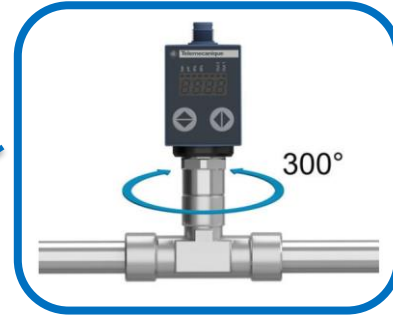


Electronic pressure sensors Gamma

Facile installazione



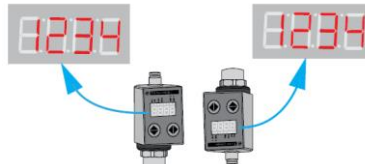
Corpo ruotabile



Taglia compatta



Semplice configurazione



Reversed display function



Telemecanique

Sensors

Simply Easy!™

