



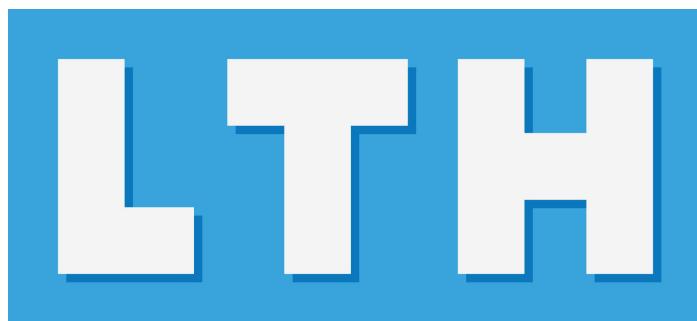
FOX

Strumenti di misura e controllo

Pressostati



HYDRAULIC
COMPONENTS
& FLUID CONTAMINATION
CONTROL



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FUNZIONAMENTO:

Un pressostato consente l'invio di un segnale elettrico o pneumatico al raggiungimento della pressione prestabilita in fase di settaggio dall'utilizzatore o dal costruttore. Per raggiungere tale scopo possono essere sfruttate differenti tipologie costruttive in funzione delle diverse applicazioni: meccanico a pistone, meccanico a membrana, elettronico con trasduttore integrato, elettronico con trasduttore separato. I pressostati meccanici FOX commutano un microinterruttore con contatti in scambio, eccezion fatta per la serie K4 che opera attraverso un contatto elettrico normalmente aperto o normalmente chiuso. I pressostati elettronici FOX coniugano la tecnologia dei sensori ceramici, con l'elettronica delle schede, appositamente studiate dai tecnici FOX, per consentire la commutazione di un microinterruttore elettronico o di un relè.

DEFINIZIONI E TERMINOLOGIA:**- Frequenza di commutazione:**

Questo valore rappresenta il limite massimo teorico cui è possibile portare il numero di cicli, cui è soggetto lo strumento, senza compromettere la sequenzialità della periodica successione delle fasi d'invio del segnale e di riarmo.

- Precisione d'intervento:

Questo dato si riferisce all'accuratezza con cui è possibile tarare lo strumento. Rappresenta l'indice della ripetibilità ed, in altri termini, il massimo scostamento del punto d'intervento dello strumento rispetto alla pressione impostata nelle stesse condizioni ambientali ed operative. La precisione d'intervento può variare in funzione della temperatura dell'ambiente in cui il pressostato opera ed in funzione dell'invecchiamento dello strumento stesso.

- Isteresi:

Con questo termine si indica l'intervallo di pressione necessario allo strumento per riarmarsi dopo aver inviato un segnale al raggiungimento della pressione tarata. Tale indice risulta essere fisso per i pressostati ad esecuzione meccanica, poiché intrinsecamente legato alle scelte costruttive operate dai progettisti; mentre nei pressostati elettronici tale valore può essere regolato dall'utilizzatore secondo le proprie esigenze. Per i pressostati meccanici il valore di isteresi indicato è quello calcolato nel punto medio del campo di regolazione, spostandosi agli estremi di tale campo l'isteresi può aumentare.

- Guarnizione:

E' utilizzata nei pressostati destinati a lavorare alle alte pressioni con esecuzione a pistone. Essa ha la funzione di permettere il movimento assiale di tale pistone impedendo contemporaneamente, grazie alla spinta radiale che genera, che il fluido in pressione possa trafiltrare all'interno dello strumento. E' fondamentale per il corretto funzionamento e per la durata della vita del pressostato, qualora esso dovesse lavorare con fluidi aggressivi, che la guarnizione possieda caratteristiche di compatibilità con questi ultimi; per questa ragione FOX offre una assortita gamma di guarnizioni con caratteristiche differenti da quelle standard.

- Membrana:

Viene utilizzata nei pressostati concepiti per lavorare alle basse pressioni, realizza l'interfaccia diretta con il fluido in pressione offrendo un'ampia superficie di contatto che garantisce una elevata sensibilità alle piccole variazioni di pressione. Analogamente a quanto detto per le guarnizioni, è fondamentale per il corretto funzionamento e per la durata della vita del pressostato, qualora esso dovesse lavorare con fluidi aggressivi, che la membrana possieda caratteristiche di compatibilità con questi ultimi; per questa ragione FOX offre una assortita gamma di membrane con caratteristiche differenti da quelle standard.

- Vita meccanica:

Questo valore indica il numero di cicli minimo che il pressostato può garantire senza carichi elettrici sui contatti.

NOTA* : il numero di cicli diminuisce in modo inversamente proporzionale al carico presente sui contatti elettrici.

WORKING:

A pressure switch allow to send an electric or pneumatic signal when in the system the value of pressure set by the user or directly by the manufacturer is reached. The pressure switches are made in different execution in relation of different application: mechanic with piston, mechanic with membrane, electronic with integrated transducer, electronic with separated transducer.

The FOX mechanical pressure switches change over a micro switch with exchange contacts, except for the K4 series that works with a normal open or normal closed electric contact.

The FOX electronic pressure switches join the technology of the ceramic sensors with the electronics of the boards especially studied by his technicians to permit the commutation of an electronic micro switch or a relay.

DEFINITION AND TERMINOLOGY:**- Commutation frequency:**

This value represents the maximum theoretical limit to which is possible to carry the number of cycles, which the instrument is subject, without compromise the sequence of the periodic succession of the phases of dispatch of the signal and of the resetting.

- Operating accuracy:

This datum is referred to the possible accuracy for the setting of the instrument, it represents the repeatability index and, in other terms, the maximum deviation of the operating point of the instrument towards the settled pressure, in the same environment and operating conditions. The intervention precision can vary according to the temperature of the environment in which the pressure switch operates and as a function of the aging of the instrument itself

- Hysteresis:

This word indicates the pressure interval that the instrument needs to reset after having sent a signal at the reaching of the settled pressure. This index is firm for the pressure switches with a mechanical execution as intrinsically is tied to the constructive choices operated by the designers, while in the electronic pressure switches this value can be adjusted by the user accordingly to his necessity. For the mechanical pressure switches, the hysteresis value indicated is that calculated at the midpoint of the regulation range, moving to the extremes of this field the hysteresis can increase.

- Seal:

It is employed in the pressure switches used to work at high pressures with a piston execution. This execution has the function to permit the axial moving of the piston avoiding in the same time, due to the radial thrust generated, that the fluid in pressure draws inside the instrument. It is essential for correct operation and duration of the life of the pressure switch, if it were to work with aggressive fluids, which the seal possesses characteristics of compatibility with the latter; for this reason FOX offers an assorted range of gaskets with different characteristics from standards.

- Membrane:

It is used in the pressure switches studied to work at low pressures. The membrane realizes the direct interface with the fluid in pressure offering a large contact surface that guarantees a high sensitivity to the small pressure variations. On the analogy to what said for the seals, it is essential for the correct working and for the length of the pressure switch's life, in case it should work with aggressive fluids, that the membrane has the characteristics of compatibility with these ones; therefore FOX offers an assorted range of seals with different characteristics from the standard ones.

- Mechanical life:

This value means the least number of cycles that the pressure switch can guarantee without electric loads on the contacts.

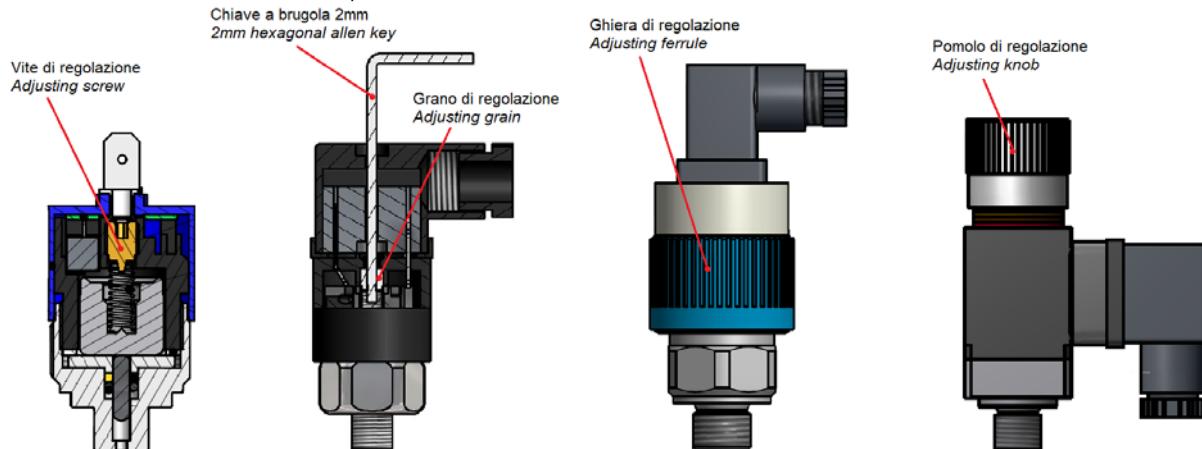
NOTE*: the number of cycles inversely decreases in proportional way to the present load on the electric contacts.

TARATURA PRESSOSTATI ELETTROMECCANICI:

Tutti i pressostati elettromeccanici della gamma FOX sono a taratura regolabile; il punto d'intervento viene ricercato agendo su di una ghiera esterna graduata, un pomolo in testa graduato, una vite o un grano (sotto il connettore DIN), posti in testa allo strumento. Ruotando in senso orario, viene aumentata la precarica della molla di contrasto e quindi si aumenta il valore di taratura, viceversa, ruotando in senso antiorario, viene diminuita la compressione della molla e di conseguenza viene abbassato il valore di settaggio. Ogni pressostato meccanico è caratterizzato da uno specifico campo di regolazione; il pressostato lavora in condizioni ottimali quando il punto d'intervento si trova nella parte centrale di tale intervallo; Più ci si avvicina agli estremi del campo di taratura, meno precisa e più difficoltosa sarà la taratura dello stesso. Per tarare correttamente il pressostato, non è sufficiente trovare il punto di taratura al primo ciclo, ma il punto di intervento corretto si trova dopo 3-4 cicli in quanto bisogna dar modo alla molla di contrasto di assestarsi. Una volta tarato, nelle versioni con ghiera e pomolo è sufficiente stringere il grano di blocco per bloccare la ghiera/pomolo in posizione, nelle versioni a vite o grano invece, una volta tarati, devono essere obbligatoriamente bloccati con loctite, vernice o frenafiletto; il mancato fissaggio degli stessi a lungo andare può far perdere la taratura allo strumento. L'installazione alla linea idraulica deve essere effettuato con appropriate chiavi di serraggio, agendo e facendo forza esclusivamente sul corpo esagonale o quadro. Le parti in nylon dello strumento non devono mai essere utilizzate come punto di leva. E' obbligatorio installare in impianto un manometro per la lettura in continuo della pressione e una valvola di massima tarata a pressione inferiore della pressione di design del pressostato in modo tale da prevenire colpi di pressione dannosi per il pressostato stesso.

ELECTROMECHANICAL PRESSURE SWITCH SETTING:

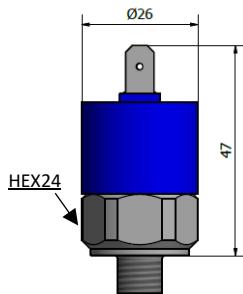
All the electromechanical pressure switches of the FOX range have adjustable pressure setting; the setting point will be found with an external graduated ring nut, a graduated knob on the top side, a screw or a grain (under the DIN connector), placed at the top-head of the instrument. By turning clockwise, the preload of the contrast spring is increased and therefore the calibration value is increased, vice versa, by turning counterclockwise, the compression of the spring is decreased and consequently the setting value is lowered. Each mechanical pressure switch is characterized by a specific adjustment range; the pressure switch works in optimal conditions when the setting point is in the middle of this range; The closer you get to the extremes of the calibration range, the less precise and more difficult it will be to calibrate the same. To correctly setting the pressure switch, it is not sufficient to find the setting point at the first cycle, but the correct setting point is found after 3-4 cycles as it is necessary to allow the contrast spring to settle. Once calibrated, in the versions with ring nut and knob it is sufficient to tighten the locking dowel to lock the ring nut/knob in position, in the screw or grain versions instead, once calibrated, they must be blocked with Loctite, paint or threadlocker; failure to fix them in the long run can cause the instrument to lose its setting point. Installation to the hydraulic system must be carried out with appropriate tightening wrenches, acting and applying force exclusively to the hexagonal body or square body. The nylon parts of the tool must never be used as a lever point. It is mandatory to install a pressure gauge in the system for continuous reading of the pressure and a maximum pressure safety valve set at a lower pressure than the pressure switch design pressure in order to prevent pressure shocks that are harmful to the pressure switch itself.

**TARATURA PRESSOSTATI ELETTRONICI
SETTING OF THE ELECTRONIC PRESSURE SWITCHES**

Serie <i>Series</i>	Massima pressione <i>Maximum pressure</i>	Min. pressione (isteresi) <i>Min. pressure (hysteresis)</i>	Modalità d'intervento <i>Operating modality</i>
X2	Pre-tarato in fabbrica / <i>Pre-setted in factory</i>	Pre-tarato in fabbrica / <i>Pre-setted in factory</i>	Pre-tarato in fabbrica / <i>Pre-setted in factory</i>
X5	Pulsanti posti in testa allo strumento (lato MAX) <i>Buttons placed on the top side of the instrument (signal MAX)</i>	Pulsanti posti in testa allo strumento (lato MIN) <i>Buttons placed on the top side of the instrument (signal MIN)</i>	Premere "+" per incrementare "-" per diminuire. Intervento Max e Min vanno impostati autonomamente. <i>Push + to increase and - to decrease the value. Max and Min setting points must be set separately.</i>
KL5			
KLV5	Pulsante "P1" posto in testa allo strumento <i>Enter to setting up to "P1"</i>	Pulsante "P2" posto in testa allo strumento <i>Enter to setting up to "P2"</i>	Tutte le istruzioni vengono indicate allo strumento o sono scaricabili dal sito internet www.fox.it <i>All the instructions are annex to instrument or you can download it from www.fox.it</i>
FL5			
FL4	Tutte le soglie con i rispettivi valori di massimo ed isteresi sono programmabili attraverso la tastiera esterna <i>All the threshold with the respective maximum values and hysteresis are programmable by an external keyboard</i>		
ATR141			
KD5-KRD5			

**TARATURA TERMOSTATI ELETTRONICI E LIVELLOSTATI
SETTING OF THE ELECTRONIC THERMOSTAT AND LEVEL**

Serie <i>Series</i>	Massima temperatura <i>Maximum pressure</i>	Min. temperatura (isteresi) <i>Min. temperature (hysteresis)</i>	Modalità d'intervento <i>Operating modality</i>
XT5	Potenziometro graduato protetto da tappo posto in posizione centrale in testa allo strumento <i>Trimmer set positioned in the middle of the top side of instrument and protected from plug</i>	Trimmer protetto da tappo di chiusura posto a fianco del potenziometro <i>Trimmer set in lateral position in top of instrument and protected from plug</i>	Ruotare in senso orario per incrementare viceversa per diminuire il valore <i>To rotate clockwise to increase vice versa for decreasing the value</i>
XT5V	Pulsante "P1" posto in testa allo strumento <i>Enter to setting up to "P1"</i>	Pulsante "P2" posto in testa allo strumento <i>Enter to setting up to "P2"</i>	Tutte le istruzioni vengono indicate allo strumento o sono scaricabili dal sito internet www.fox.it <i>All the instructions are annex to instrument or you can download it from www.fox.it</i>
LGV			



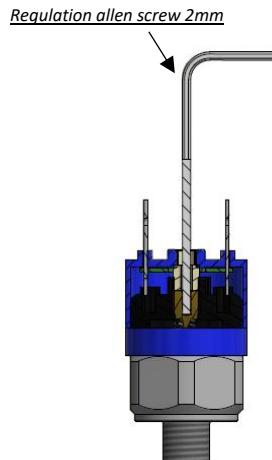
K4



P1

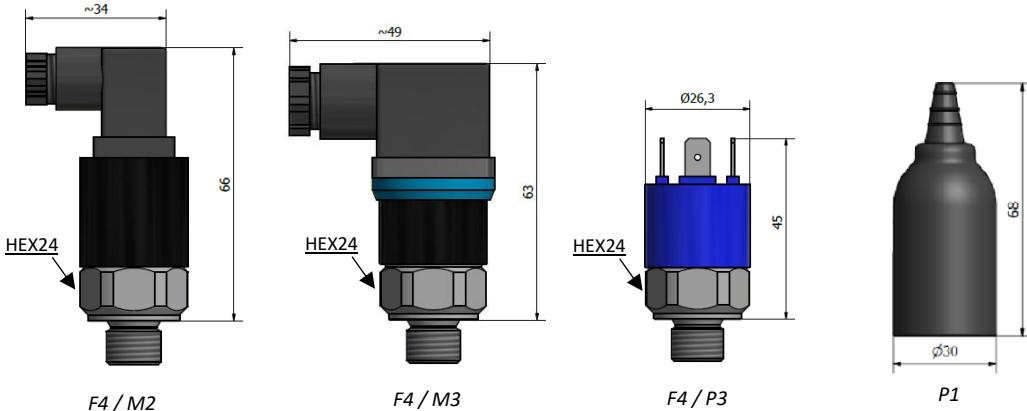


Technical features	
Switching pressure range:	From -0.8 Bar to 400 Bar
Maximum pressure:	From 25 Bar to 600 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	Different threads (STD: 1/4" BSP-M)
Body material:	Zinc plated steel with key 24mm (AISI 316L or different BRASS on request)
Weight:	0,06 Kg
Fixed hysteresis value:	<ul style="list-style-type: none"> - Membrane execution ~ 10% of end of scale at 20°C - Piston execution ~ 20% of end of scale at 20°C - Y Piston execution ~ 25% of end of scale at 20°C
Switching accuracy:	± 5% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm
Electric features	
Maximum load:	0.5 A at 250 Volt AC, 0.15 A at 110 Volt DC
Type of electric contact:	NO or NC
Electric protection acc. to EN 60529:	P1 – IP54
Other	
Also available:	<ul style="list-style-type: none"> - Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only - Separator (<10 bar) for corrosive and/or high percentage of solid particles
Warranty:	see dedicated page

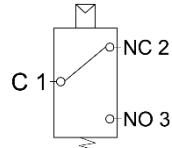


Adjustment instructions





SPDT contacts



Technical features

Switching pressure range:	From -0.8 Bar to 400 Bar
Maximum pressure:	From 25 Bar to 600 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	Different threads (STD: 1/4" BSP-M)
Body material:	Zinc plated steel with key 24mm (AISI 316L or different BRASS on request)
Weight:	0,05 Kg
Fixed hysteresis value:	<ul style="list-style-type: none"> - Membrane execution ~ 10% of end of scale at 20°C - Piston execution ~ 15% of end of scale at 20°C - Y Piston execution ~ 25% of end of scale at 20°C
Switching accuracy:	± 4% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm

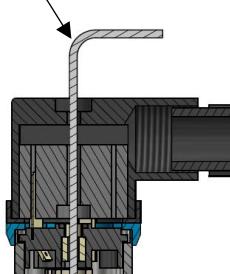
Electric features

Maximum load:	0.5 A at 250 Volt AC, 0.15 A at 110 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm), M2 (15x15mm) – IP65
Electric protection acc. to EN 60529:	M2, M3 – IP65 / P3, P1 – IP54
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65 for F4 with M2 and M3

Other

Also available:	<ul style="list-style-type: none"> - Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only - Separator (<10 bar) for corrosive and/or high percentage of solid particles
Warranty:	see dedicated page

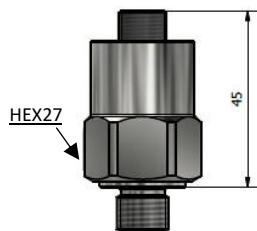
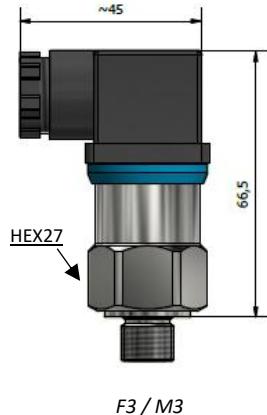
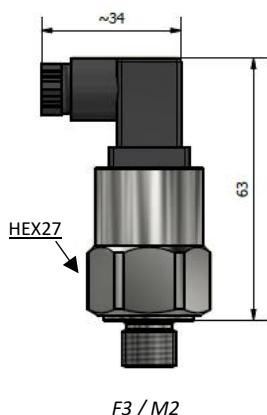
Regulation allen screw 2mm



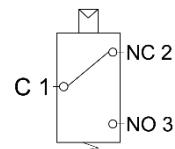
Adjustment instructions



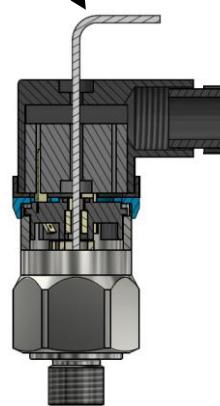
F4.											
Switching Pressure range	Execution	P Max	Body Material	Hydraulic Connection	Type of Seal	Electric Contacts	Setting Pressure	Condition	Type of Electric Connection	Protection Cap	P1
R	0.2>2.5	Membrane	25	X AISI316L	0 1/8" BSP-M	V VITON	G Gold plated contacts (if omitted means standard contacts)	If requested, indicate the value setting pressure, also indicate the condition "D" or "U"	D Means falling pressure setting, also please indicate the value	M2 connector 16x16	
S	1>10	Membrane	25	L BRASS	1 1/4" BSP-M	T PTFE	SPDT contacts		U Means rising pressure setting, also please indicate the value	M3 connector 30x30	
SM	1>10	Membrane	150	B NICKEL PLATED BRASS	2 1/8" BSPT-M	E EPDM				P3 Fast-on 6.3x0.8	
SP	1>10	Piston	300	if omitted means zinc plated steel	3 M10x1-M	H HNBR					
T	5>50	Piston	300		4 1/8" NPT-M						
TM	5>50	Membrane	150		5 1/4" NPT-M						
V	10>100	Piston	350		6 1/4" BSPT-M						
VM	10>100	Membrane	150								
Z	30>300	Piston	400								
Y	50>400	Piston	600								
ADJUSTABLE VACUUM SWITCH											
WF4	-0,8>-0,15	Membrane	25								



SPDT contacts



Regulation allen screw 2mm

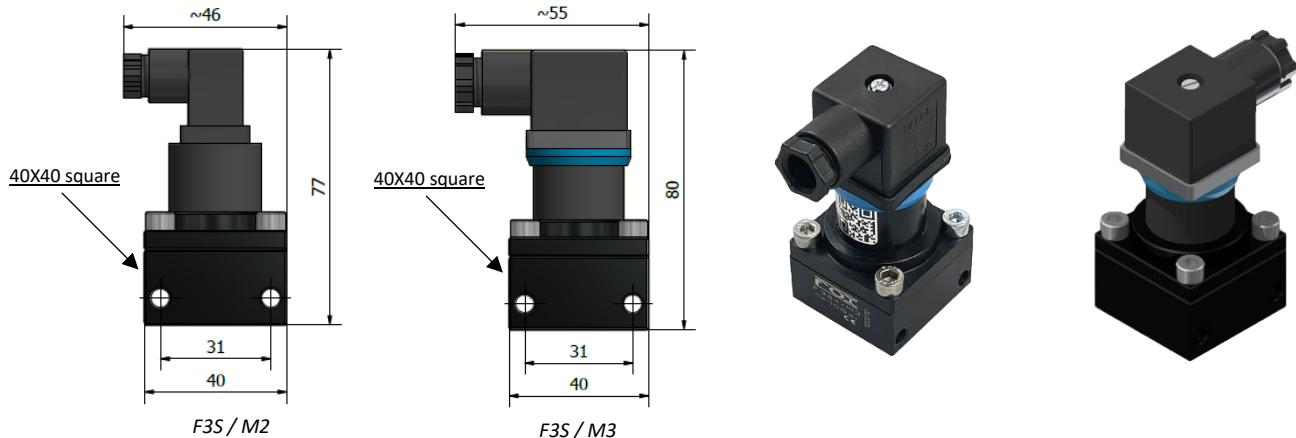


Adjustment instructions



Technical features											
Switching pressure range:		From 0.2 Bar to 400 Bar									
Maximum pressure:		From 25 Bar to 600 Bar									
Working temperature:		-25°C ÷ +85°C									
Hydraulic connection:		1/4" BSP-M									
Body material:		Zinc plated steel with key 27mm (AISI 316L or BRASS on request)									
Weight:		0,08 Kg									
Fixed hysteresis value:		- Membrane execution ~ 10% of end of scale at 20°C - Piston execution ~ 15% of end of scale at 20°C									
Switching accuracy:		± 4% of end of scale at 20°C									
Mechanical life:		10 ⁶ cycles at 70 bar (1000 PSI) at 20°C									
Tightening torque max:		50 Nm									
Electric features											
Maximum load:		2A at 42 Volt AC/DC									
Type of electric contact:		Exchange contacts (Common, NO and NC) – SPDT									
Electric connection acc. to DIN 43650:		M3 (30x30mm), M2 (15x15mm) – IP65									
Electric connection acc. to IEC 60947-5-2:		M12 – IP67									
Electric protection acc. to EN 60529:		M2, M3 – IP65 / M12 – IP67									
ATEX certification:		ATEX II 3G Ex nc IIB/IIIB T6 Gc/Dc IP65									
Other											
Also available:		- Different threads - Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only									
Warranty:		see dedicated page									

F3.					.	.			.	.	.
Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	Body Material	Type of Seal	Electric contacts	Setting pressure	Condition	Type of Electric Connection	
	Bar							Bar			
F30	0.2>2.5	Membrane	25								
F31	1>10	Membrane	25								
F31M	1>10	Membrane	150								
F31P	1>10	Piston	300								
F33	5>50	Piston	300								
F33M	5>50	Membrane	150								
F35	10>100	Piston	350								
F35M	10>100	Membrane	150								
F37	30>300	Piston	400								
F39	50>400	Piston	600								
				1/4" BSP-M	X AISI316L L BRASS if omitted means zinc plated steel	V VITON T PTFE E EPDM H HNBR If omitted means NBR	G Gold plated contacts (if omitted means standard contacts) SPDT contacts	Indicate the value setting pressure, also indicate the condition "D" or "U"	D Means falling pressure setting, also please indicate the value U Means rising pressure setting, also please indicate the value	M2 connector 16x16 M3 connector 30x30 M12 connector 12x1	



SPDT contacts

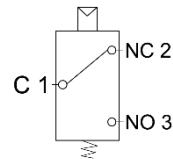
Technical features	
Switching pressure range:	From -0.8 Bar to 10 Bar
Maximum pressure:	25 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	1/4" BSP-F
Through holes for mounting on panel:	2 x Ø5,25mm wheelbase 31mm
Body material:	40x40mm square in anodized aluminium
Weight:	0,1 Kg
Fixed hysteresis value:	- Membrane execution ~ 10% of end of scale at 20°C
Switching accuracy:	± 3% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm

Electric features

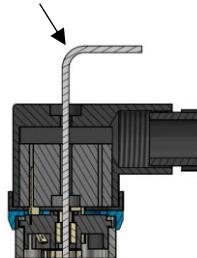
Maximum load:	0.5 A at 250 Volt AC, 0.15 A at 110 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm), M2 (15x15mm) – IP65
Electric connection acc. to IEC 60947-5-2:	P1 protection – IP67 (ATEX execution not applicable)
Electric protection acc. to EN 60529:	M2, M3 – IP65
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65

Other

Also available:	- Different threads - Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only
Warranty:	see dedicated page



Regulation allen screw 2mm



Adjustment instructions



F3S.					.	.	.	.	.	.	.
Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	Body Material	Type of Seal	Electric contacts	Setting pressure	Condition	Type of Electric Connection	
	Bar							Bar			
F3S1	0.05>0.5	Membrane	15	1/4" BSP-F	X AISI316L P PVC if omitted means aluminium	V VITON T PTFE E EPDM If omitted means NBR	G Gold plated contacts (if omitted means standard contacts) SPDT contacts	Indicate the value setting pressure, also indicate the condition "D" or "U"	D Means falling pressure setting, also please indicate the value U Means rising pressure setting, also please indicate the value	M2 connector 16x16 M3 connector 30x30	
F3S2	0.1>1	Membrane	15								
F3S3	0.5>5	Membrane	15								
F3S4	1>10	Membrane	15								
ADJUSTABLE VACUUM SWITCH											
W31	-0.5>-0.05	Membrane	15								
W32	-0.8>-0.15	Membrane	15								

Caratteristiche Tecniche:

Temperatura d'impiego: -25°C ÷ +85°C

Frequenza di commutazione: 90 cicli/min

Punto d'intervento: regolabile tramite vite interna

Precisione d'intervento: ± 4% del fondo scala a 20°C

Valore fisso d'isteresi:

- esecuzioni a membrana ~ 10% del fondo scala a 20°C

- esecuzioni a pistone ~ 15% del fondo scala a 20°C

Peso: 0,20 Kg

Vita Meccanica: 10⁶ cicli a 70 bar (1000 PSI) a 20°C

Caratteristiche Elettriche:

Carico Max: 0.5 A a 250 Volt AC, 0.15 A a 110 Volt DC

- Contatti in scambio (Comune, NA e NC) - SPDT

- Connessione elettrica secondo norme DIN43650, M3

- Connessione elettrica secondo norme IEC60947-5-2, M12

- Protezione elettrica secondo norme DIN40050, IP65

- Certificazione ATEX II 3G Ex nc IIB T6 Gc IP65

Corpo: quadro 30x30 mm in ottone nichelato

Garanzia: vedi pagina dedicata

Parti di ricambio: vedi pagina dedicata

Disponibile:

- Pressioni massime speciali

- Connessioni elettriche speciali

- Valori di isteresi speciali

- CU-TR per mercato russo

- UL-CSA solo per parte elettrica

- Separatore in Inox, acciaio al carbonio o plastica (<10 bar) per fluidi corrosivi e/o con alte percentuali di solidi in sospensione

Technical features:

Working temperature: -25°C ÷ +85°C

Switching frequency: 90 cycles/min

Operating point: adjustable through an internal screw

Switching accuracy: ± 4% of end of scale at 20°C

Fixed hysteresis value:

- membrane execution ~10% of end of scale at 20°C

- piston execution ~15% of end of scale at 20°C

Weight: 0,20 Kg

Mechanical life: 10⁶ cycles at 70 bar (1000 PSI) at 20°C

Electric features:

- Maximum load: 0.5A at 250 Volt AC, 0.15 A at 110 Volt DC

- Exchange contacts (Common, NO and NC) - SPDT

- Electric connection according to DIN43650, M3

- Electric connection according to IEC60947-5-2, M12

- Electric protection according to DIN40050, IP65

- ATEX certification ATEX II 3G Ex nc IIB T6 Gc IP65

Body: 30x30mm square in brass

Warranty: see dedicated page

Spare parts: see dedicated page

Also available:

- Special max pressure

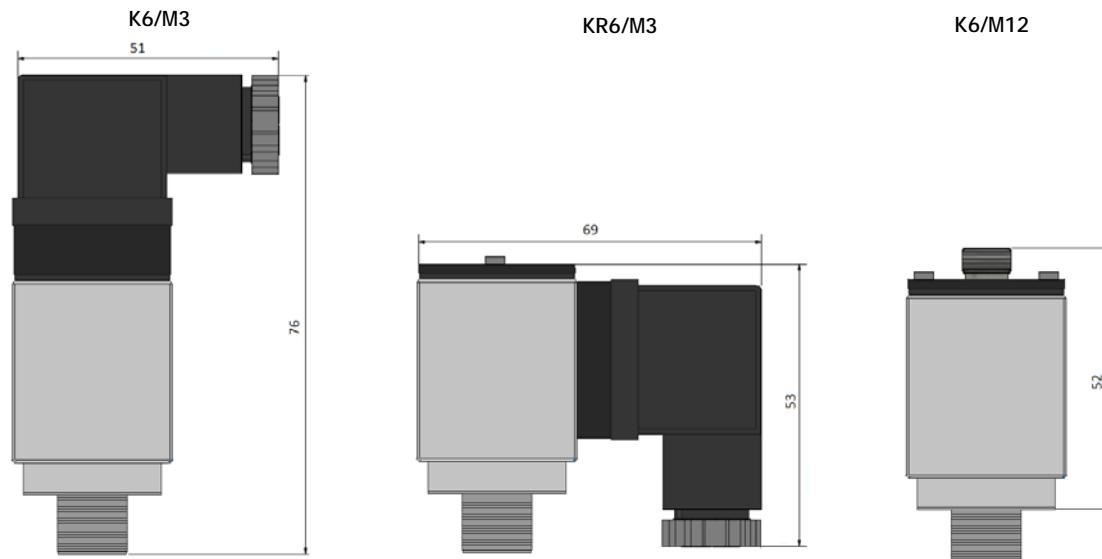
- Special electrical connection

- Special value of hysteresis

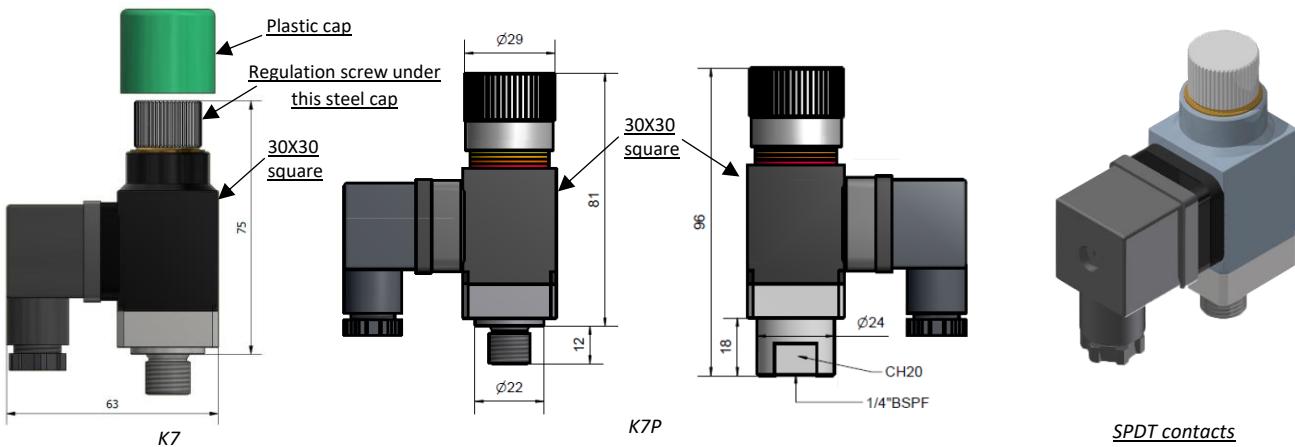
- CU-TR for Russian market

- UL-CSA for electric part only

- Separator in stainless steel, carbon steel or plastic (<10 bar) for corrosive and/or high percentage of solid particles



K6. - KR6.									
Type	Campo di regolazione	Esecuzione	P max	Connessione Idraulica	Tipo di Guarnizione	Tipologia Micro Interruttori	Pressione di taratura	Condizione	Tipologia Connessione Elettrica
Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	Type of Seal	Type of Electric Contact	Setting pressure	Condition	Type of Electric Connection
	Bar		Bar				Bar		
K60	KR60	0.2>2	Membrana Membrane	25	1/4" BSPT-M (KR6) 1/4" BSP-M (K6)	V VITON T PTFE E EPDM Se omesso indica NBR If omitted means NBR	G Contatti Dorati (se omesso indica contatti standard) Gold plated contacts (if omitted means standard contacts)	D Taratura in discesa, comunicare anche il valore Means falling pressure setting, also please indicate the value U Taratura in salita, comunicare il valore Means rising pressure setting, also please indicate the value	M3 connettore connector 30x30 M12 connessione connection M12x1 (Disponibile solo per il tipo K6, connettore femmina escluso) (Available only for K6 type, female connector excluded)
K61	KR61	1>15	Membrana Membrane	25					
K61M	KR61M	1>15	Membrana Membrane	200					
K63	KR63	4>40	Pistone Piston	300					
K63M	KR63M	4>40	Membrana Membrane	200					
K64	KR64	15>150	Pistone Piston	300					
K64M	KR64M	10>100	Membrana Membrane	200					
K65	KR65	25>250	Pistone Piston	300					
K67	KR67	50>300	Pistone Piston	400					



Technical features

Switching pressure range:	From 1 Bar to 500 Bar
Maximum pressure:	From 25 Bar to 600 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	1/4" BSP-M
Body material:	30x30mm square in anodized aluminum with wetted parts in zinc plated steel
Weight:	0,30 Kg
Fixed hysteresis value:	- Membrane execution ~ 15% of end of scale at 20°C - Piston execution ~ 15% of end of scale at 20°C
Switching accuracy:	± 2% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm

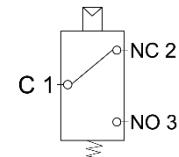
Electric features

Maximum load:	0.5 A at 250 Volt AC, 0.25 A at 125 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm) / M4 (30x30mm) – IP65
Electric connection acc. to IEC 60947-5-2:	M12 – IP67
Electric protection acc. to EN 60529:	M3, M4 – IP65 / M12 – IP67
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65

Other

Also available:	- Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only - Separator (<10 bar) for corrosive and/or high percentage of solid particles
Warranty:	see dedicated page

SPDT contacts

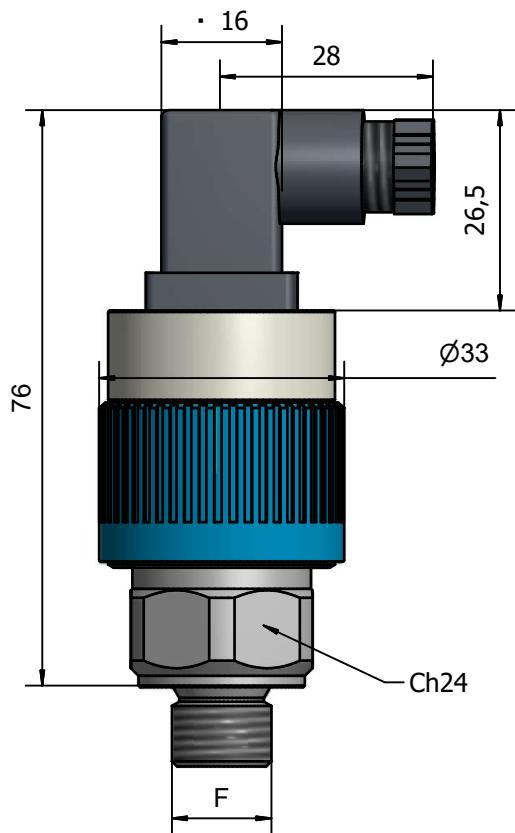


Adjustment instructions

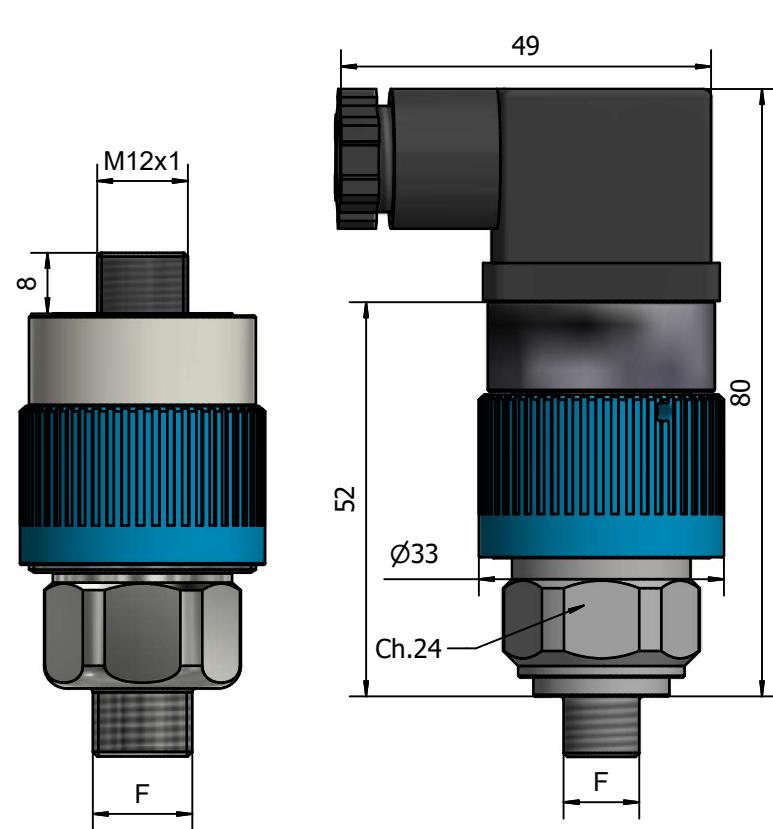


K7.						.						
Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	Body Material	Type of Seal	Electric contacts	Setting pressure	Condition	Type of execution	Type of Electric Connection	
	Bar							Bar				
K71	1>12	Membrane	25	F 1/4"BSP-F female If omitted means standard connection 1/4" BSP-M	X AISI316/316 L If omitted means standard material	V VITON	G Gold plated contacts (if omitted means standard contacts) E EPDM If omitted means NBR	If requested, indicate the value setting pressure, also indicate the condition "D" or "U" U Means rising pressure setting, also please indicate the value	D Means falling pressure setting, also please indicate the value P Execution with adjustable graduate knob If omitted means standard execution	M12 connector 12x1 M4 connector with light signal of insertion If omitted means M3		
K71P	2>15	Piston	300			T PTFE						
K73M	5>50	Membrane	150			E EPDM						
K73	5>50	Piston	300			SPDT contacts						
K75M	10>100	Membrane	150									
K75	15>150	Piston	350									
K77	30>300	Piston	400									
K79	50>500	Piston	600									

Plug electrical connection
M2 15x15



Plug electrical connection
M3 30x30



TECHNICAL FEATURES F7

PRESSURE RANGE: FROM 1BAR TO 400BAR

BODY: BRASS, ZINC-PLATE CARBON STEEL OR A316 STAINLESS STEEL

CONNECTION THREADED: SEE THE LIST

WORKING TEMPERATURE: FROM -25°C TO 85°C

SWITCHING FREQUENCY: 90 CYCLES / MINUTE

SWITCHING ACCURACY: FROM 0,5 TO 4BAR

FIXED HYSTERESIS VALUE: +/- 10% OF THE END OF SCALE TO 20°C

10% OF THE END OF SCALE FOR MEMBRANE EXECUTION

WEIGHT: 0.05 kg

MECHANICAL LIFE: 10^6 CYCLES AT 70BAR AT 20°C

ELECTRICAL FEATURES

MAXIMUM LOAD: 3A AT 24 VOLT DC

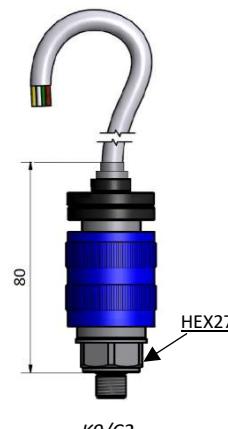
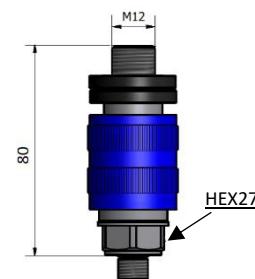
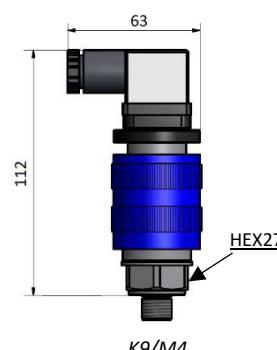
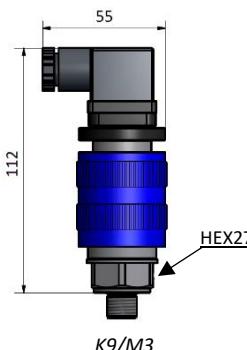
ELECTRIC CONNECTION: ACCORDING TO DIN43650 M3 TYPE

ELECTRIC PROTECTION: IN ACCORDING TO DIN40050:IP65

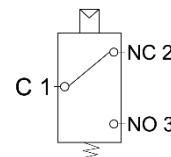
ELECTRICS CONTACTS: IN EXCHANGE I>2 NC AND I>3 NO

Thread available	F
0	1/8" BSP
1	1/4" BSP
2	1/8" BSPT
3	M10x1
4	1/8" NPT
5	1/4" NPT
6	1/4" BSPT

DRAWN: CHECKED: APPROVED:	Date	Name:	DESCRIPTION: Adjustable pressure switch F7	SCALE:
	11/09/2017	ec		1:1
	11/09/2017	aa		
ALL DIMENSION ARE IN MILLIMETER EXCEPT WHERE OTHERWISE NOTED	Projection:ISO128	FOX S.r.l. Via Romagna 6 20090 Opera (MI) ITALY	DRAWING No/FILE NAME F7-Datasheet	SHEET 1 of 1



SPDT contacts



Technical features

Switching pressure range:	From 1 Bar to 400 Bar
Maximum pressure:	From 200 Bar to 600 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	1/4" BSP-M
Body material:	Zinc plated steel with key 27mm (AISI 316L on request)
Metal ring material:	Anodized aluminum
Weight:	0,40 Kg
Fixed hysteresis value:	- Membrane execution ~ 15% of end of scale at 20°C - Piston execution ~ 15% of end of scale at 20°C
Switching accuracy:	± 2% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm

Electric features

Maximum load:	5 A at 250 Volt AC, 0.25 A at 125 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm) / M4 (30x30mm) – IP65
Electric connection acc. to IEC 60947-5-2:	M12 – IP67
Electric protection acc. to EN 60529:	M3, M4 – IP65 / M12 – IP67
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65; ATEX II 2G Ex db IIC T6 Gb IP65 (Only for C2 execution)

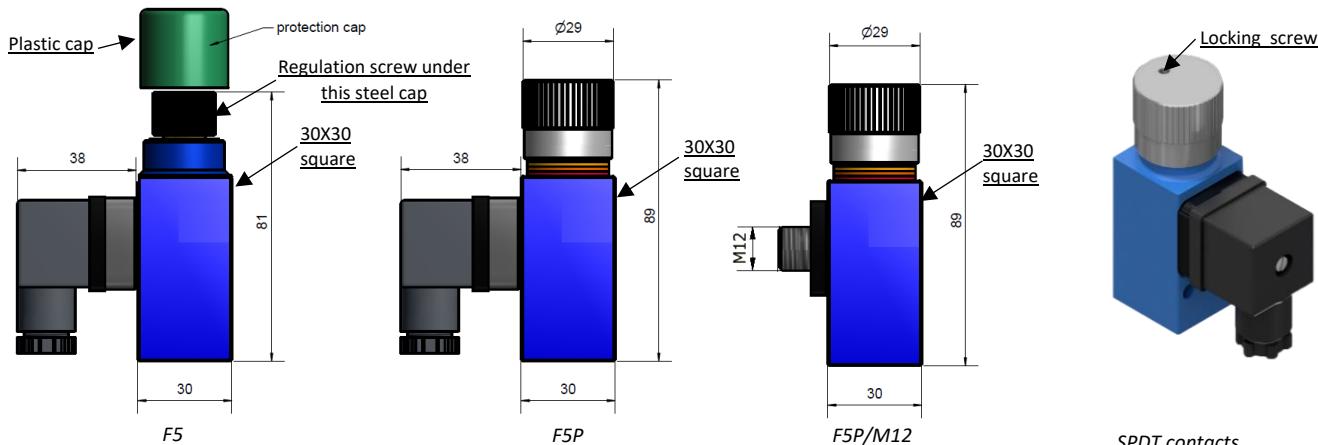
Other

Also available:	<ul style="list-style-type: none"> - Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only - Special length of cable till to 5 meters on request (only for C2 version) - Separator (<10 bar) for corrosive and/or high percentage of solid particles
Warranty:	see dedicated page

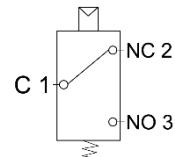
Adjustment instructions



K9.				
Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	Atex Classification	Body Material	Type of Seal	Electric contacts	Setting pressure	Condition	Type of Electric Connection	
	Bar								Bar			
K92	1>12	Membrane	200	1/4" BSP-M	C2 II 2G Ex db IIC T6 Gb IP65 if omitted means standard execution II 3G Ex nc IIB T6 Gc IP65	X AISI316/316L If omitted means zinc plated steel	V VITON E EPDM If omitted means NBR	G Gold plated Contacts (Not available for C2 version) If omitted means silver plated contacts SPDT contacts	D Means falling pressure setting, also please indicate the value U Means rising pressure setting, also please indicate the condition "D" or "U"	If requested, indicate the value setting pressure, also indicate the condition "D" or "U" If omitted means M12 connector 12x1 M4 connector with light signal of insertion If omitted means M3		
K93	2>40	Piston	200									
K94	5>100	Piston	300									
K95	20>200	Piston	400									
K97	30>300	Piston	600									
K99	40>400	Piston	600									



SPDT contacts

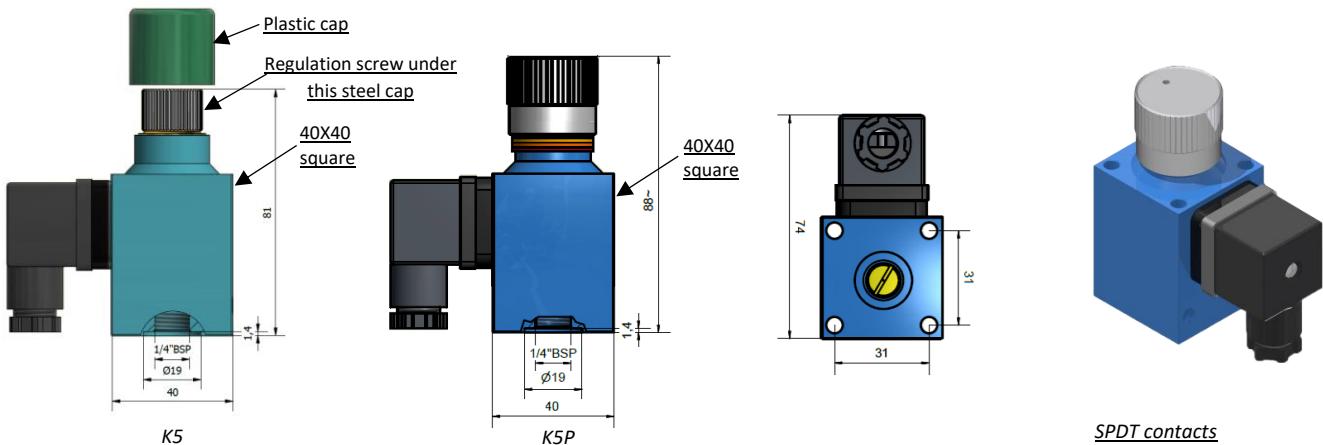


Technical features	
Switching pressure range:	From 5 Bar to 300 Bar
Maximum pressure:	From 300 Bar to 400 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	1/4" BSP-F
Body material:	30x30mm square in anodized aluminum
Through holes for mounting on panel:	2 x Ø5,25mm wheelbase 20mm
Weight:	0,15 Kg
Fixed hysteresis value:	- Piston execution ~ 15% of end of scale at 20°C
Switching accuracy:	± 2% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm
Electric features	
Maximum load:	5 A at 250 Volt AC, 0.25 A at 125 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm) / M4 (30x30mm) – IP65
Electric connection acc. to IEC 60947-5-2:	M12 – IP67
Electric protection acc. to EN 60529:	M3, M4 – IP65 / M12 – IP67
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65
Other	
Also available:	- Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only
Warranty:	see dedicated page

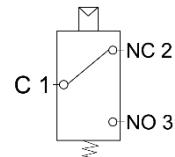
Adjustment instructions



F5.	Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	Type of Seal	Electric contacts	Setting pressure	Condition	Type of execution	Type of Electric Connection
		Bar						Bar			
F53		5>50	Piston	300		V VITON	G Gold plated contacts (if omitted means silver plated contacts)	If requested, Indicate the value setting pressure, also indicate the condition "D" or "U"	D Means falling pressure setting, also please indicate the value	P Execution with adjustable graduate knob	M12 connector 12x1
F55		15>150	Piston	350	1/4"BSP-F	E EPDM If omitted means NBR	SPDT contacts	U Means rising pressure setting, also please indicate the value	U Means rising pressure setting, also please indicate the value	If omitted means standard execution	M4 connector with light signal of insertion If omitted means M3
F57		30>300	Piston	400							



SPDT contacts



Technical features	
Switching pressure range:	From 2 Bar to 400 Bar
Maximum pressure:	From 200 Bar to 600 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	1/4" BSP-F or Cetop flange
Body material:	40x40mm square in anodized aluminum
Through holes for mounting on panel:	2 x Ø5,25mm wheelbase 31mm
Weight:	0,30 Kg
Fixed hysteresis value:	- Piston execution ~ 15% of end of scale at 20°C
Switching accuracy:	± 2% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm (for 1/4" BSP-F)

Electric features

Maximum load:	5 A at 250 Volt AC, 0.25 A at 125 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm) / M4 (30x30mm) – IP65
Electric connection acc. to IEC 60947-5-2:	M12 – IP67
Electric protection acc. to EN 60529:	M3, M4 – IP65 / M12 – IP67
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65

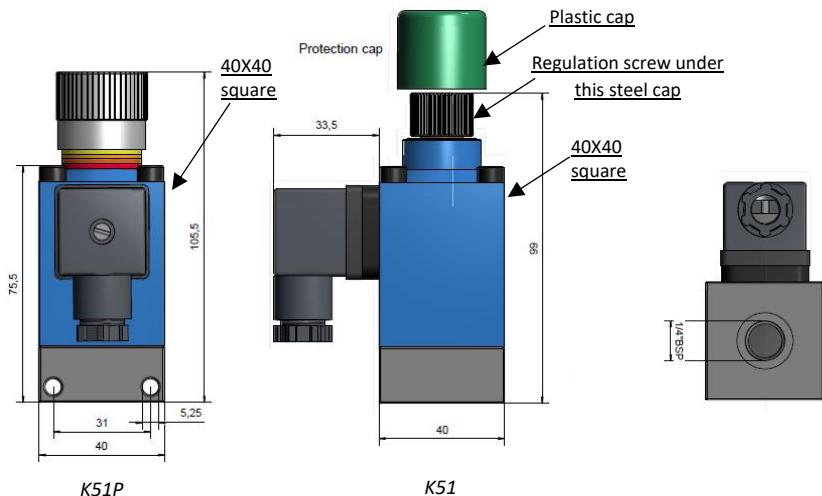
Other

Also available:	- Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only - Connection plates B6 and B10 for modular assembly with solenoid valves (see adapters page)
Warranty:	see dedicated page

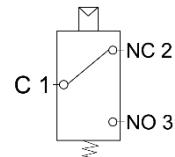
Adjustment instructions



K5.	Type	Switching Pressure range	Execution	P Max	Hydraulic Connection	.	.	Electric contacts	Setting pressure	.	.	.	Type of Electric Connection
		Bar							Bar				
K53	2>40	Piston	200							D	Means falling pressure setting, also please indicate the value		
K54	5>100	Piston	300		1/4"BSP-F or Cetop without necessity of adaptors	V VITON	G Gold plated contacts (if omitted means silver plated contacts)	If omitted means NBR	U Means rising pressure setting, also please indicate the value	P Execution with adjustable graduate knob	If omitted means standard execution	M12 connector 12x1	
K55	20>200	Piston	400			E EPDM	SPDT contacts					M4 connector with light signal of insertion	
K57	30>300	Piston	500									If omitted means M3	
K59	40>400	Piston	600										



SPDT contacts



Adjustment instructions



Technical features

Switching pressure range:	From 0.2 Bar to 15 Bar
Maximum pressure:	From 12 Bar to 20 Bar
Working temperature:	-25°C ÷ +85°C
Hydraulic connection:	1/4" BSP-F
Body material:	40x40mm square in anodized aluminum (AISI 316L on request)
Through holes for mounting on panel:	2 x Ø5,25mm wheelbase 31mm
Weight:	0,35 Kg
Fixed hysteresis value:	- Membrane execution ~ 10% of end of scale at 20°C
Switching accuracy:	± 2% of end of scale at 20°C
Mechanical life:	10 ⁶ cycles at 70 bar (1000 PSI) at 20°C
Tightening torque max:	50 Nm

Electric features

Maximum load:	5 A at 250 Volt AC, 0.25 A at 125 Volt DC
Type of electric contact:	Exchange contacts (Common, NO and NC) – SPDT
Electric connection acc. to DIN 43650:	M3 (30x30mm) / M4 (30x30mm) – IP65
Electric connection acc. to IEC 60947-5-2:	M12 – IP67
Electric protection acc. to EN 60529:	M3, M4 – IP65 / M12 – IP67
ATEX certification:	ATEX II 3G Ex nc IIB T6 Gc IP65

Other

Also available:	- Special value of hysteresis - CU-TR for Russian market - UL-CSA for electric part only
Warranty:	see dedicated page

K51.					
Type	Switching Pressure range	Execution	P Max	Wetted Parts Material	Hydraulic Connection	Type of Seal	Electric contacts	Setting pressure	Condition	Type of execution	Type of Electric Connection	
	Bar							Bar				
K51.1	0.2>2	Membrane	12	X AISI316L (If omitted means anodized aluminum)	V VITON E EPDM If omitted means NBR	G Gold plated contacts (If omitted means silver plated contacts) SPDT contacts	If requested, Indicate the value setting pressure, also indicate the condition "D" or "U"	D Means falling pressure setting, also please indicate the value U Means rising pressure setting, also please indicate the value	P Execution with adjustable graduate knob If omitted means standard execution	M12 connector 12x1 M4 connector with light signal of insertion If omitted means M3		
K51.2	0.5>5	Membrane	12									
K51.3	1>10	Membrane	15									
K51.4	3>15	Membrane	20									

Caratteristiche Tecniche:

Temperatura d'impiego: -25°C ÷ +85°C

Frequenza di commutazione: 60 cicli/min

Punto d'intervento: facendo scorrere la slitta su cui è alloggiato il connettore verso il lato avente pressione maggiore per ridurre il delta pressione segnalato, viceversa per incrementarlo.

Precisione d'intervento: ±5% del fondo scala a 20°C

Valore fisso d'isteresi: ~20% del fondo scala a 20°C

Peso: 0,25 Kg

Vita Meccanica: 10⁶ cicli a 20°C

Caratteristiche elettriche:

- Carico Max: 1 A a 48VAC, 0,5 A a 48VDC

- Connessione elettrica secondo norme DIN43650, M3

- Protezione elettrica secondo norme DIN40050, IP65

- Contatti in scambio (Comune, NA e NC) - SPDT

Corpo: quadro 30x30mm in alluminio anodizzato con parti a contatto in ottone nichelato

Garanzia: vedi pagina dedicata

Parti di ricambio: vedi pagina dedicata

Disponibile:

- Pressioni massime speciali

- Connessioni elettriche speciali

- Valori di isteresi speciali

- CU-TR per mercato russo

- Guarnizioni in Viton o PTFE

Technical features:

Working temperature: -25°C ÷ +85°C

Switching frequency: 60 cycles/min

Setting point: adjustable reached by sliding the connector-housing forward to increase the differential ration and backward to decrease the different pressure value

Switching accuracy: ±5% of end of scale at 20°C

Fixed hysteresis: ~20% of end of scale at 20°C

Weight: 0,25 Kg

Mechanical life: 10⁶ cycles at 20°C

Electric Features:

- Maximum load: 1 A at 48VAC, 0,5 A at 48VDC

- Electric connection according to DIN43650, M3

- Electric protection according to DIN40050, IP65

- Exchange contacts (Common, NO and NC) - SPDT

Body: 30x30mm square in anodized aluminium with wetted part in plated brass

Warranty: see dedicated page

Spare parts: see dedicated page

Also available:

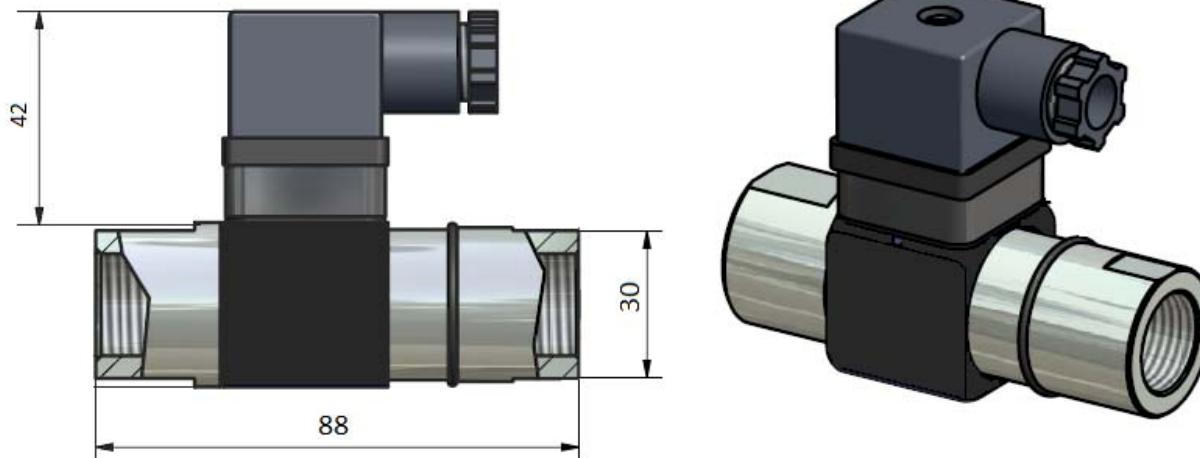
- Special max pressure

- Special electrical connection

- Special value of hysteresis

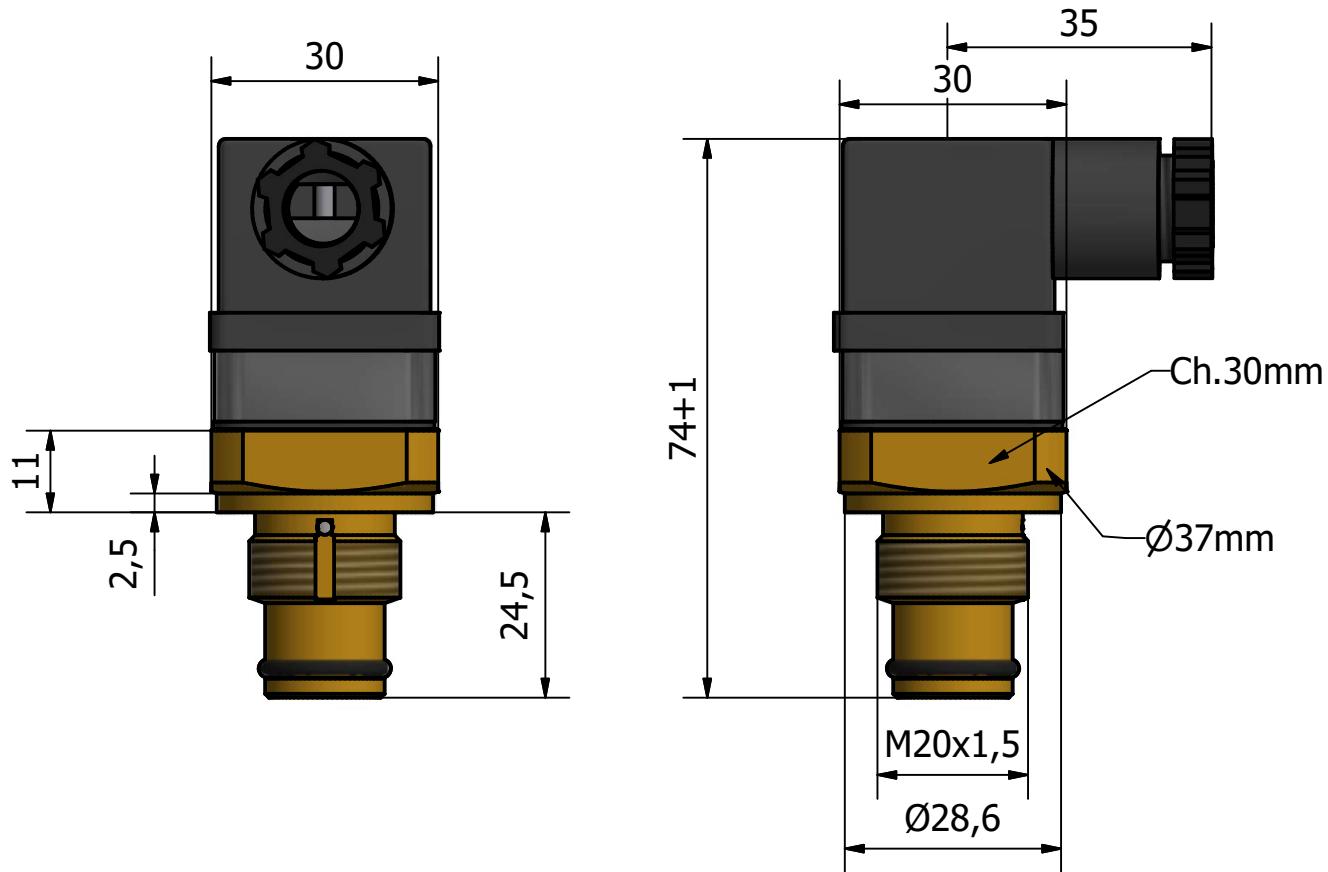
- CU-TR for Russian market

- Seals in Viton or PTFE



KZ2					/	/	
Tipo	Campo di utilizzo	Campo di regolazione differenziale P2 (max) - P1 (min)	P max	Connessione Idraulica	Materiale del corpo	Pressione di taratura differenziale	Condizione
Type	Working range	Differential adjustment range P2 (max) - P1 (min)	P max	Hydraulic connection	Body Material	Differential setting pressure	Condition
	Bar	Bar	Bar			Bar	
KZ20	0.5 > 3	0.2 - 1.6					
KZ21	1.5 > 5	1 - 2			X AISI316L	Indicare il valore del differenziale se desiderato tarato in fabbrica	D indica taratura in discesa di pressione means falling pressure setting
KZ23	3 > 10	2 - 4	200	½" BSP-F	Se omesso indica ottone nichelato If omitted means nickel-plated brass	Indicate the value if you want the pressure switch already preset in factory	U indica taratura in salita di pressione means rising pressure setting
KZ25	10>30	3 - 7					
KZ27	20>50	4 - 8					

Pressostato differenziale tipo KZ3



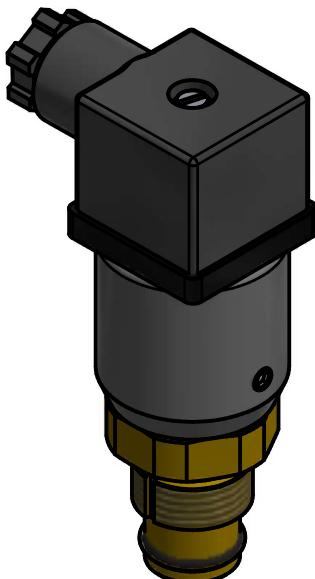
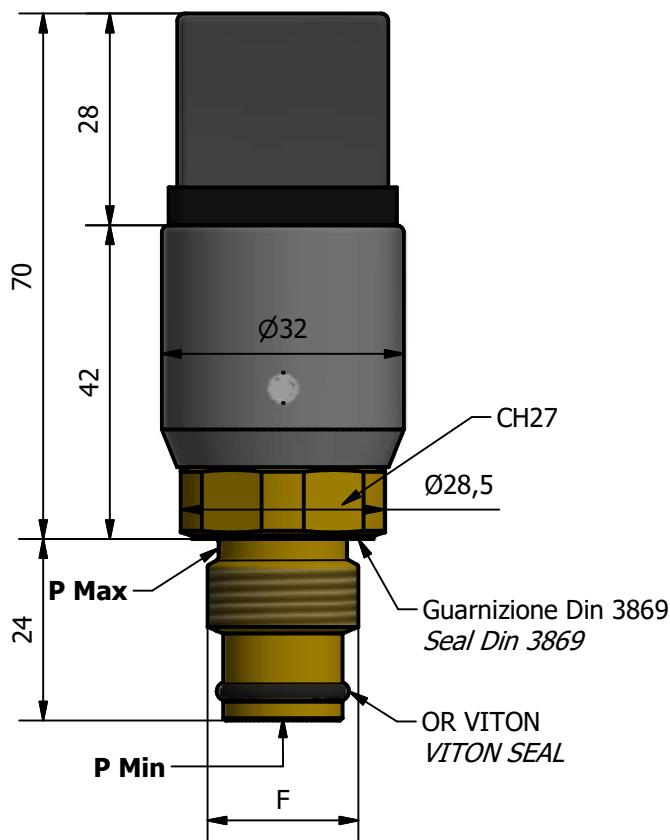
Caratteristiche Tecniche

Riferimenti	
CODICE	Differenziale
KZ3.13	1,3 Bar
KZ3.2	2 Bar
KZ3.3	3 Bar
KZ3.5	5 Bar
KZ3.8	8 Bar
KZ3.10	10 Bar

- Pressione massima di lavoro 450Bar
- Pressione di scoppio >1.350Bar
- Presione differenziale presettabile da 1 a 10Bar
- Contatti elettrici in scambio NA/NC
- Attacco elettrico a norme DIN 43650-IP65
- connettore con led luminoso tipo M4
- Corrente d'utilizzo 12V / 24V
- Carico elettrico 0,5Amp
- Attacco al fluido M20X1,5

ALL DIMENSION ARE IN MILLIMETER EXCEPT WHERE OTHERWISE NOTED		DRG. SIZE: A4	PROJECTION: ISO 128	WHEIGHT:	SCALE: 1:1	CAD ref.: KZ3_Fox.idw
ISO R468 Ra VALUES		0,8/ 1,6/ 3,2/ 6,3/ 12,6/	GEN. TOLL.:	MATERIAL: OTTONE		
		Date	Name	TREATMENT:		
Drawn 08/07/2010		ec				
Checked 01/09/2010		aa		DESCRIPTION: Pressostato differenziale serie KZ3		
Approved						
FOX S.r.l. Via Romagna, 6 20090 Opera (MI) ITALY			DRAWING No/NomeFILE: KZ3_Fox			SHEET 1 of 1
Issue	Description	Date	Name	THIS DRAWING IS PROPERTY OF FOX S.r.l.. COPYRIGHT, PATENTS AND ALL INDUSTRIAL PROPERTY RIGHTS RESERVED		

DATA SHEET



Pressostato differenziale KZD5 Differential Pressure Switch KZD5

Caratteristiche meccaniche: Mechanical Features:

Corpo in Ottone o AISI316L

Body in Brass or AISI316L

Filettatura d'attacco: M20x1,5 o 1/2"BSP

Process Connection: M20x1,5 or 1/2"BSP

Guarnizione su filetto: Din 3869 n°22

Seal integrated in the thread: Din 3869 n°22

Pressione di progetto: 500Bar

Design pressure: 500 Bar

Pressione di prova: 700Bar

Test pressure: 700 Bar

Pressione differenziale: da 1Bar a 10Bar secondo richiesta

Differential pressure: from 1Bar to 10Bar on request

Caratteristiche elettriche: Electrical Features:

Parte elettrica ruotabile di 360° sul corpo

Electric connection with 360° rotation capability

Parte elettrica bloccabile tramite due viti

Electric connection position lockable with two dowels

Connettore DIN 43650 o M12x1

DIN connector 43650 or M12x1

Massimo carico sui contatti:

Maximum electric charge: 0,5Amp 250VAC

3Amp 125VAC

0,15Amp 110VDC

Segnale Elettrico:

Electrical Signal:

1-2 = Norm. Chiuso (*Normally Closed*)

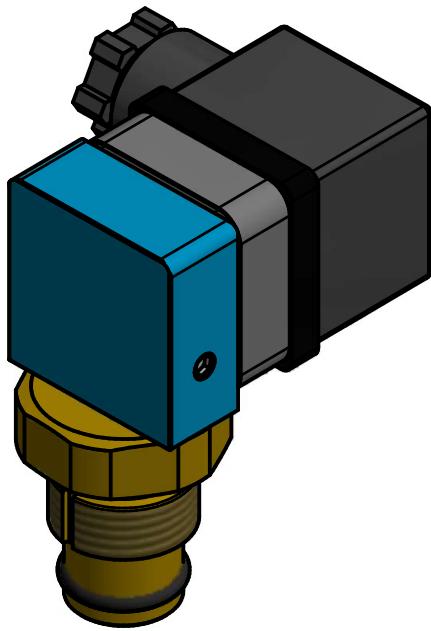
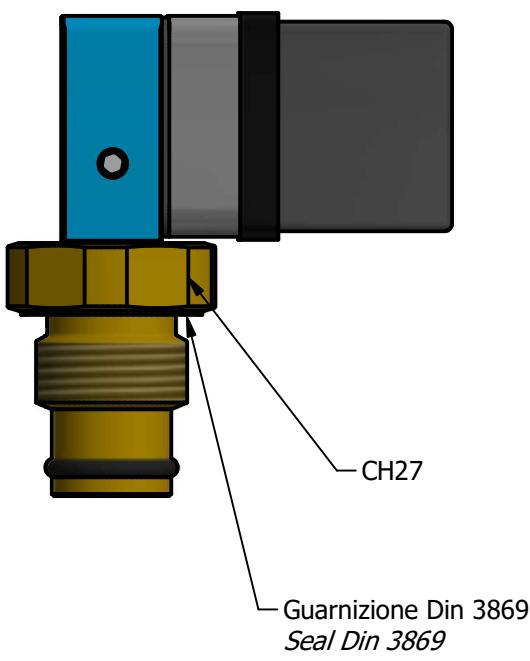
1-3= Norm. Aperto (*Normally Open*)

A richiesta uscita 4>20mA o 0>10V

On request signal 4>20mA or 0>10V

Riferimenti	
CODICE	Differenziale
KZD5.13	1,3 Bar
KZD5.2	2 Bar
KZD5.3	3 Bar
KZD5.5	5 Bar
KZD5.8	8 Bar
KZD5.10	10 Bar

ALL DIMENSION ARE IN MILLIMETER EXCEPT WHERE OTHERWISE NOTED		DRG. SIZE: A4	PROJECTION: ISO 128	WHEIGHT:	SCALE: 1:1	CAD ref.: KZD5B-Scheda.idw
ISO R468 Ra VALUES		0,8 / 1,6 / 3,2 / 6,3 / 12,6		GEN. TOLL.:	MATERIAL: Ottone o Aisi316	
			Date	Name	TREATMENT: ////	
			Drawn	15/01/2020	M.G.	
			Checked	14/02/2020	EC	DESCRIPTION: KZD5-Scheda
			Approved			
FOX S.r.l. Via Romagna, 6 20090 Opera (MI) ITALY				DRAWING No/NomeFILE: KZD5-Scheda		SHEET 1 of 1
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Pressostato differenziale KZD5L Differential Pressure Switch KZD5L

Caratteristiche meccaniche: Mechanical Features:

Corpo in ottone
Body in Brass
Filettatura d'attacco: M20x1,5 / 1/2"BSP
Process Connection: M20x1,5 / 1/2"BSP
Guarnizione su filetto: Din 3869 n°22
Seal integrated in the thread: Din 3869 n°22
Pressione di progetto: 450Bar
Design pressure: 450 Bar
Chiave di serraggio: 27mm
Installation Key: 27 mm

Caratteristiche elettriche: Electrical Features:

Parte elettrica ruotabile di 360° sul corpo
Electric connection with 360° rotation capability
Parte elettrica bloccabile tramite due viti
Electric connection position lockable with two dowels
Contatti elettrici in scambio NA/NC
Electric contact SPDT Normally Open and Closed
Massimo carico sui contatti: 0,5Amp 42V
Maximum electric charge: 0,5 Amp 42 V

Disponibile: Available also:

Esecuzione con segnale elettrico e visivo
Version with electric and visual signal
Due valori d'intervento elettromeccanici
Two electromechanical intervention points
Segnale in uscita 4>20mA
Proportional Output 4>20mA
Segnale in uscita 4>20mA e due allarmi PNP
Proportional Output 4>20mA with two additional PNP signals

ALL DIMENSION ARE IN MILLIMETER EXCEPT WHERE OTHERWISE NOTED		DRG. SIZE: A4	PROJECTION: ISO 128	WHEIGHT:	SCALE: 1:1	CAD ref.: KZD5-Preliminary.idw
ISO R468 Ra VALUES		0,8/ 1,6/ 3,2/ 6,3/ 12,6/			GEN. TOLL.: ////	
				Date	Name	TREATMENT: ////
			Drawn	12/05/2017	ec	
			Checked	12/05/2017	aa	DESCRIPTION: KZD5L-scheda tecnica
			Approved			
FOX S.r.l. Via Romagna, 6 20090 Opera (MI) ITALY				DRAWING No/NomeFILE: KZD5L-scheda tecnica		SHEET 1 of 1
Issue	Description	Date	Name	THIS DRAWING IS PROPERTY OF FOX S.r.l.. COPYRIGHT, PATENTS AND ALL INDUSTRIAL PROPERTY RIGHTS RESERVED		

Caratteristiche Tecniche:

Temperatura d'impiego: 0°C ÷ +60°C
 Precisione d'intervento: ± 3% del fondo scala a 20°C
 Valore fisso d'isteresi: ~15% del fondo scala a 20°C
 Frequenza di commutazione: 30 cicli/min
 Corpo: quadro 40x40 mm in alluminio anodizzato
 Peso: AS50-51 → 0,2kg / AS53 a 59 → 0,35kg
 Vita Meccanica: 10⁶ cicli a 20°C

Caratteristiche pneumatiche:

- Fluido ammesso: aria, pressione massima di alimentazione 8 bar
- Contatto semplice (NA o NC)

Garanzia: vedi pagina dedicata

Disponibile:

- Pressioni massime speciali
- Connessioni elettriche speciali
- Valori di isteresi speciali
- CU-TR per mercato russo

Technical Features:

Working temperature: 0°C ÷ +60°C
 Switching accuracy: ±3% of the end of scale at 20°C
 Fixed hysteresis value: ~15% of the end of scale at 20°C
 Switching frequency: 30 cycles/min
 Body: 40x40 mm square in anodized aluminium
 Weight: AS50-51 → 0,2kg / AS53 to 59 → 0,35kg
 Mechanical life: 10⁶ cycles at 20°C

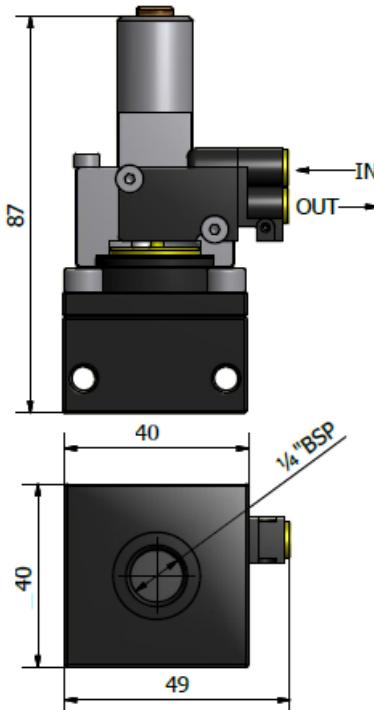
Pneumatic characteristics:

- Fluid admitted: air, supply max pressure 8 bar
- Simple contact (NA or NC)

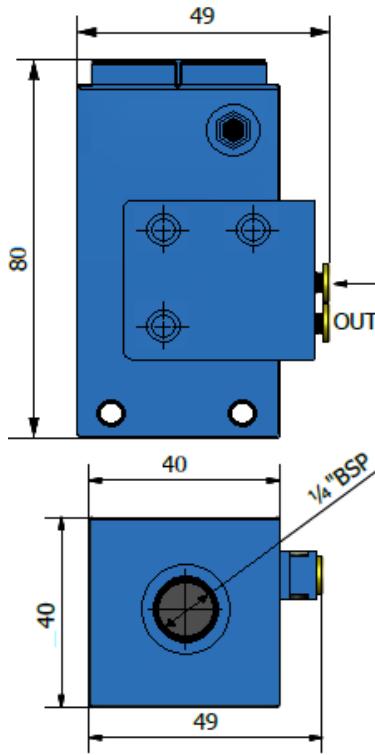
Warranty: see dedicated page

Also Available:

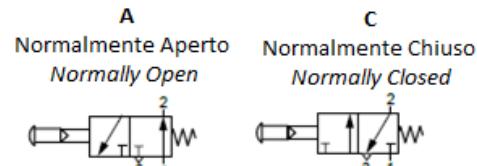
- Special max pressure
- Special electrical connection
- Special value of hysteresis
- CU-TR for Russian market



Disegno / Drawing n°1



Disegno / Drawing n°2



AS5.	Campo di regolazione	Esecuzione	P max	Materiale della connessione	Connessione Idraulica	Tipologia contatto	Tipo di guarnizione o membrana	Taratura in Bar	Condizione	Tipologia esecuzione	Disegno
Type	Switching pressure range	Execution	P max	Connection material	Hydraulic connection	Type of contact	Seal or membrane type	Preset value in Bar	Condition	Type of execution	Drawing
			Bar	Bar							
AS50	1.5 > 5	Membrana Membrane	15	X AISI316L se omesso indica versione standard <i>If omitted means standard version</i>	1/4" BSP-F	A NA NO C NC NC Solo esecuzione standard in alluminio anodizzato <i>Only standard execution in anodized aluminium</i>	V VITON T PTFE se omesso indica NBR <i>If omitted means NBR</i>	Indicare il valore se desiderato impostato in fabbrica <i>Indicate the value if you want the pressure switch already preset in factory</i>	D indica taratura in discesa di pressione means falling pressure setting <i>Indicates the pressure setting if you want the pressure switch already preset in factory</i>	Solo esecuzione standard con vite di regolazione Only standard execution with regulation screw	N°1
AS51	3 > 20	Membrana Membrane	30								
AS53	2 > 40	Pistone Piston	200								
AS54	5 > 100	Pistone Piston	300								
AS55	20 > 200	Pistone Piston	400								
AS57	30 > 300	Pistone Piston	500								
AS59	40 > 400	Pistone Piston	600								

Caratteristiche tecniche B6 e B10

La caratteristica principale delle piastre B6 e B10 è permettere con un'unica esecuzione la connessione del pressostato tipo K5 a scelta su tutte le prese di pressione A, B e P.

Materiale: alluminio anodizzato

Pressione massima di utilizzo: 350 bar

Dotazione standard:

- Viti di fissaggio del pressostato
- Grani di chiusura per le prese di pressione non utilizzate
- O-ring di tenuta

Dimensioni:

- B6 → 100x45x44 mm

- B10 → 90x70x50 mm

Peso:

- B6 → 0.37 kg

- B10 → 0.8 kg

Caratteristiche tecniche K7RID:

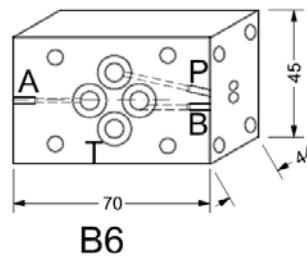
Materiale: acciaio con zincatura trivalente

Pressione massima di utilizzo: 400 bar

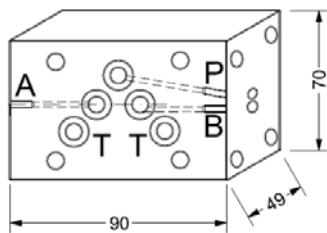
Dotazione standard:

- viti di fissaggio a brugola M4x16
- O-ring di tenuta

Peso: 0.07 kg



B6



B10

Piastre di collegamento per il montaggio modulare con elettrovalvole CETOP 3 o 5 per la serie K5

Connection plate for modular assembly with solenoid valve CETOP 3 or 5 for K5 series

Technical features B6 and B10

The main feature of the plates B6 and B10 is to allow a single execution the connection between the pressure type K5 choice of all the pressure taps A, B and P.

Material: anodized aluminum

Maximum working pressure: 350 bar

Standard equipment:

- Screws to fix the pressure switch
- Dowel to close the unused pressure ports
- O-ring seal

Dimensions:

- B6 → 100x45x44 mm

- B10 → 90x70x50 mm

Weight:

- B6 → 0.37 kg

- B10 → 0.8 kg

Technical features K7RID:

Material: zinc-plated carbon steel

Maximum working pressure: 400 bar

Standard equipment:

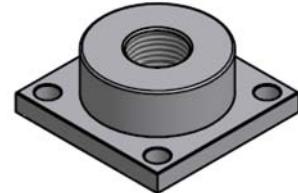
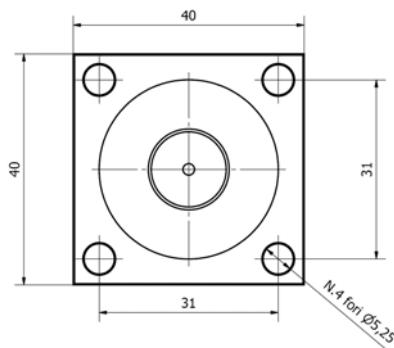
- socket head screws M4x16
- O-ring seal

Weight: 0.07 kg

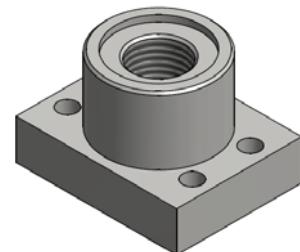
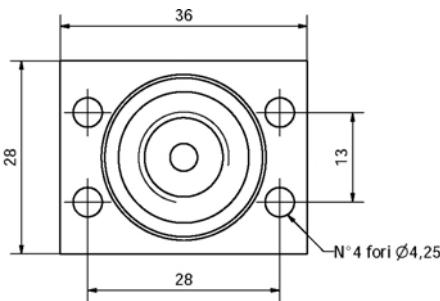
ADATTATORI ADAPTERS	K5RID – K7RID
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K5RID

Adattatore per il collegamento a flangia CETOP da pressostato con attacco maschio da $\frac{1}{4}$ " BSP-M.
Adapter for flange connection CETOP with $\frac{1}{4}$ " BSP-M

**K7RID**

Adattatore per il collegamento a flangia non unificata da pressostato con attacco da $\frac{1}{4}$ " BSP-M.
Adapter for non-conventional flange connection with $\frac{1}{4}$ " BSP-M



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