

# Compact Pressure Switches

**KLK/KLM**

Piston pressure switch Type KLK

Repeatability  $\pm 1.0$  % typical

Diaphragm seal pressure switch Type KLM

Repeatability  $\pm 2.0$  % typical

## Features

OEM pressure switch series,

Compact design,

Threaded connection

Factory settings only fully tamper proof.

## Adjustment ranges

1 ... 400 bar

## Applications

Mobile hydraulics,

Motor control,

Hydraulic clamping



## Technical Data

<b>Wetted parts:</b> ....Type KLK / KLM	NBR, PTFE Brass, roller bearing steel (KLK) Stainless steel (KLM)
<b>Repeatability:</b> Type KLK: Type KLM:	$\pm 1$ % typical $\pm 2$ % typical
<b>Switching rate:</b> ....Type KLK: ....Type KLM:	max. 60/min max. 30/min
<b>Temperature range:</b> ....Type KLK: ....Type KLM:	-40 °C... +80 °C -20 °C... +80 °C
<b>Protection class:</b> ....Silicone cable (K2): ....Plug connector (S1):	IP67 / IP69K optional IP65
<b>Housing:</b> ....Type KLK / KLM	Brass and stainless steel

<b>Process connection:</b>	M12 x 1.5 mm male G1/4 male other connections on request
<b>Electrical connection:</b>	Silicone cable (K2) Plug connector (S1)
<b>Electrical ratings capacity and hysteresis:</b>	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.
<b>Weight:</b> Type KLK: Type KLM:	0.2 kg approx. 0.2 kg approx.
<b>Set point adjustment:</b>	Factory set
<b>Intrinsically safe:</b>	The switches are designed for intrinsically safe applications. Please add "Exi" to your ordering details when placing an order. To comply with the intrinsically safe approval following max. ratings must not be exceeded: U <sub>max</sub> = 28 V I <sub>max</sub> = 50 mA
<b>Approval:</b>	Exi = Ex ia approval, further approval on request

## Pressure Ranges

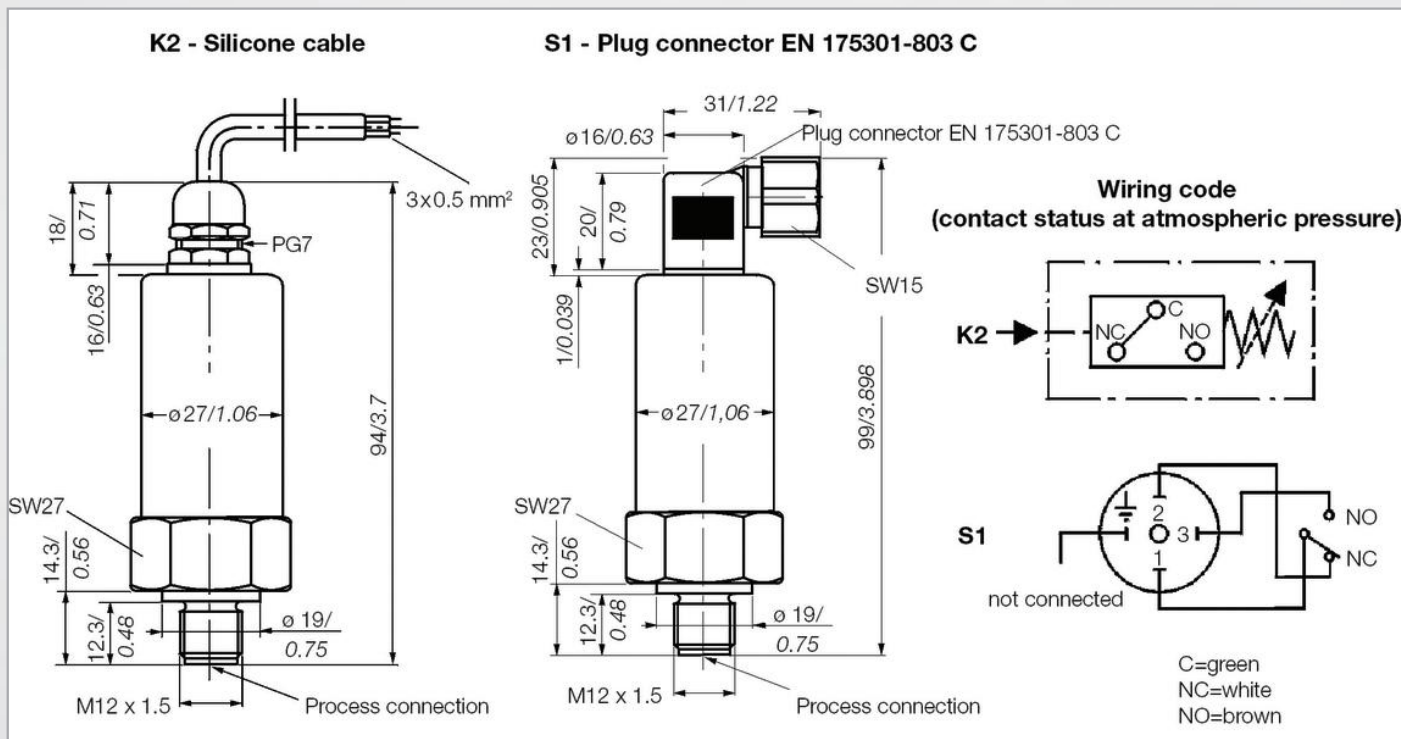
\* Higher operating pressure (up to 150 bar) (with proof pressure 200 bar) on request. Please add to your order!

Pressure range code	Adjustment range [bar]	Proof pressure [bar]	Max. operating pressure [bar]	Max. hysteresis [bar]
	Increasing pressure	short term		end of range
KLM-006	1 ... 6	80 /200*	40*	0.6
KLM-025	5 ... 25	80 /200*	40*	2.6
KLM-040	10 ... 40	80 /200*	40*	3.8
KLK-100	30 ... 100	450	300	15
KLK-300	60 ... 300	450	300	30
KLK-400	150 ... 400	600	400	60

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### Dimensions (mm / inch)



### Electrical Ratings

Micro switch	Special features	Volt DC	Ind. Load A	Res. Load A	Comments
1	Micro switch with silver contacts	30	3.0	5.0	More information on request.
2	Micro switch with gold-plated contacts	≤ 30	--	≤ 0.4	(U x I = max. 0.12 VA)

### Process Connection / Electrical Connection

Process connection	Electrical connection	Diaphragm
(M1) M12 x 1,5 male	(S1) Plug connector, 3-pin + E, EN 175301-803 C	KLK: ( ) NBR
(G1) G1/4 male	(K2) Silicone cable 3 x 0.5 mm <sup>2</sup> ; 600 mm long	KLM: (V) FKM
		KLM: (N) CR
		KLM: (E) EPDM

### Options

EXI	for intrinsically safe application
HP (KLM only)	operating pressure up to 150 bar
IP69K (K2 only)	for Heavy Duty application

### Order Code

Example for order number

Type	Type	Pressure range code	Process connection	Electr. connection	Micro switch	Diaphragm	Option
KLK	or KLM	025	G1	S1	2	V	EXI

Your order number

Type	Type	Pressure range code	Process connection	Electr. connection	Micro switch	Diaphragm	Option
KLK	or KLM						