

## Compact Pressure Switches KLK (Piston) / KLM (Diaphragm)

### Technical Data

Repeatability	: $\pm 1\%$ typ. Piston switch KLK $\pm 2\%$ typ. Diaphragm switch KLM
Switching Frequency	: max. 60/min Piston switch KLK max. 30/min Diaphragm switch KLM
Max. Temperature	: -40 °C to +80 °C Piston switch KLK -20 °C to +80 °C Diaphragm switch KLM
Pressure Connection	: M 12 x 1,5 G 1/4 male Other connections on request
Electrical Connection	: Silicone cable (Length appr. 0,6 m) - K2 Plug connector DIN 43650C - S1
Electrical Ratings and Hysteresis	: See chart
Protection Class	: K2: IP67, S1: IP65
Housing	: Compact housing made of Brass and Stainless steel
Wetted Parts	: NBR and PTFE Brass and roller-bearing steel (KLK) Stainless steel (KLM)
Intrinsically safe	: 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
Set Point Adjustment	: Factory set
Weight (appr.)	: 0,2 kg

05 / 03 KDM-ENG 03 / 2

Barksdale Mechanical Pressure Switches

**Wiring Code for all Types**  
(contact status at atmospheric pressure)

**- K2**

C = green  
NC = white  
NO = brown

**- S1**

not connected

### Adjustable Ranges

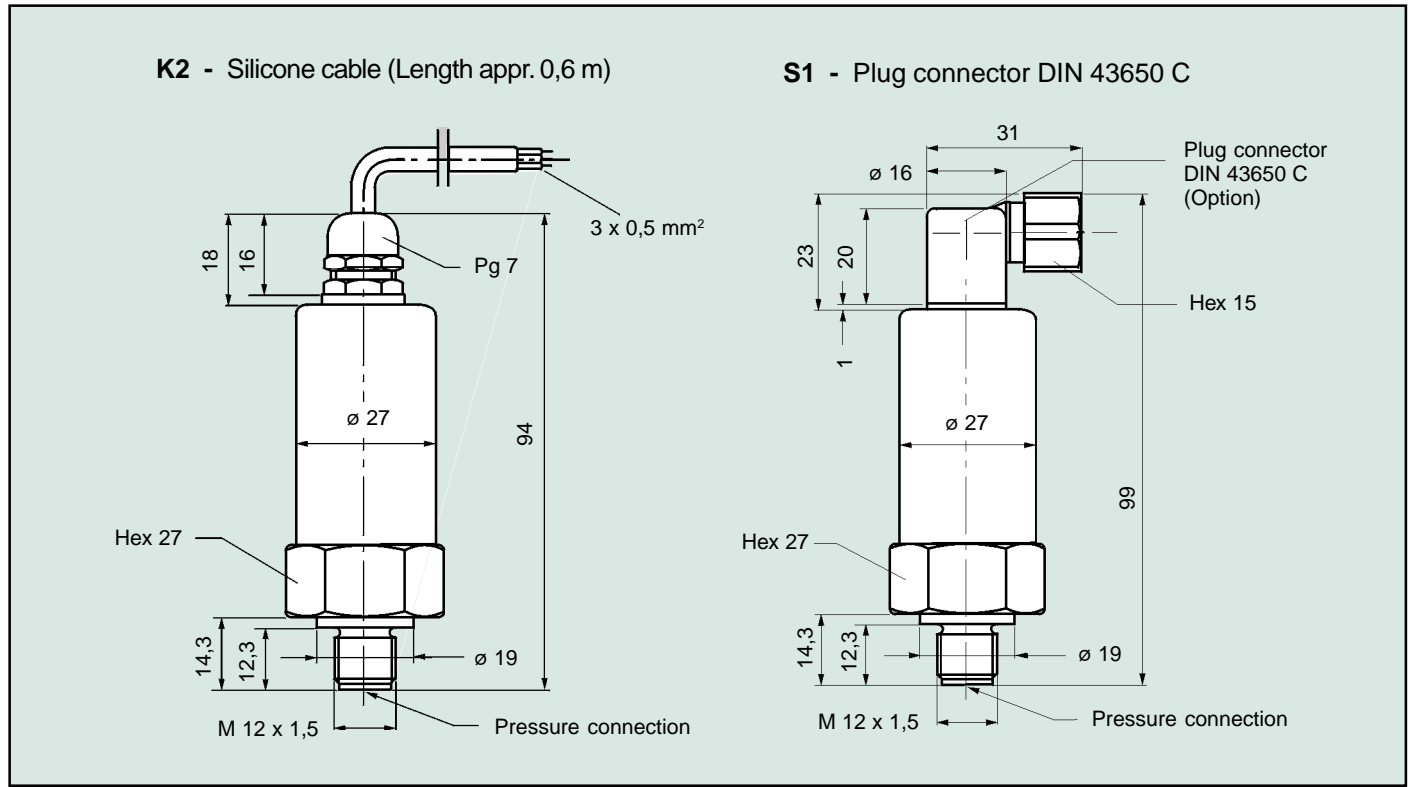
Pressure Range Code	Adjustable Range (bar) (Increasing Pressure)	Proof Press. (short term) in bar	Proof Press. (short term) in bar	Max. Hysteresis of Switch Types in bar (End of Range)
<b>Diaphragm</b>				
KLM-006	1 ... 6	80 / 200 *	40*	0,6
KLM-025	5 ... 25	80 / 200 *	40*	2,6
KLM-040	10 ... 40	80 / 200 *	40*	3,8
<b>Piston</b>				
KLK-100	30 ... 100	450	300	15
KLK-300	60 ... 300	450	300	30
KLK-400	150 ... 400	600	400	60

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

Subject to technical changes.

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## Dimensions (in mm)



## Electrical Ratings

Silver contacts	Inductive load	Resistive load	Gold-plated contacts
30 V = 50 V =	3,0 A 1,0 A	10,0 A 1,0 A	U <sub>max</sub> 30 V = I <sub>max</sub> 400 mA (U · I) <sub>max</sub> 0,12 VA

## Order number example

Type	Microswitch	Adjustable Range	Pressure Conn.	Electrical Conn.	Diaphragm	Option
KLM or KLK	2	010	G1	S1	V	EXI

## Your order number

Type	Microswitch	Adjustable Range	Pressure Conn.	Electrical Conn.	Diaphragm	Option
KLM or KLK						

Microswitch	Adjustable Range	Press. Connect.	Electr. Connection	Diaphragm	Options
(1) Silver contact	<b>Type KLM</b> (006) 1...6 bar (025) 5...25 bar (040) 10...40 bar	(M1) M 12 x 1,5 M  (G1) G 1/4" M	(S1) Connector DIN 43650-C, 3P+E  (K2) Silicone cable 3 x 0,5, 600 mm	without NBR  <b>only Type KLM</b>  (V) Viton (N) Neopren	<b>only Type KLM und KLK:</b>  (EXI) EXI applications  <b>only Type KLM:</b>  (HP) Operating press. up to 150 bar
(2) Gold-plated contact	<b>Type KLK</b> (100) 30...100 bar (300) 60...300 bar (400) 150...400 bar				

