

## High pressure transducer model KXHP

Complete stainless steel piezoresistive sensor without internal filling  
Accuracy 1% F.S.

### Features

- Rugged stainless steel construction
- High overpressure limits
- High shock and vibration stability
- Excellent long term stability
- Protection IP65
- Compact size

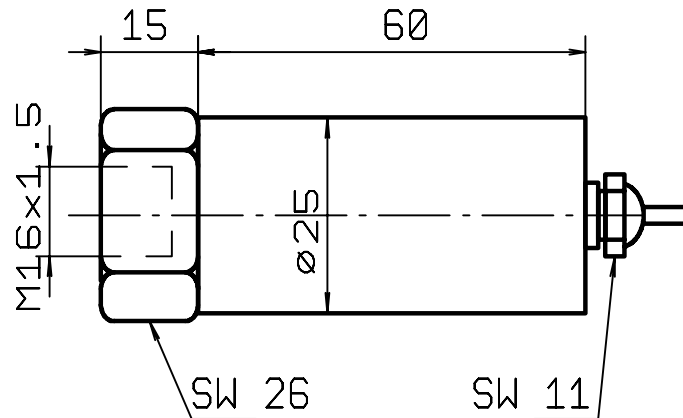
### Ranges

0 ... 1000 bar up to 0 ... 7000 bar  
0 ... 15.000 psi up to 0 ... 100.000 psi

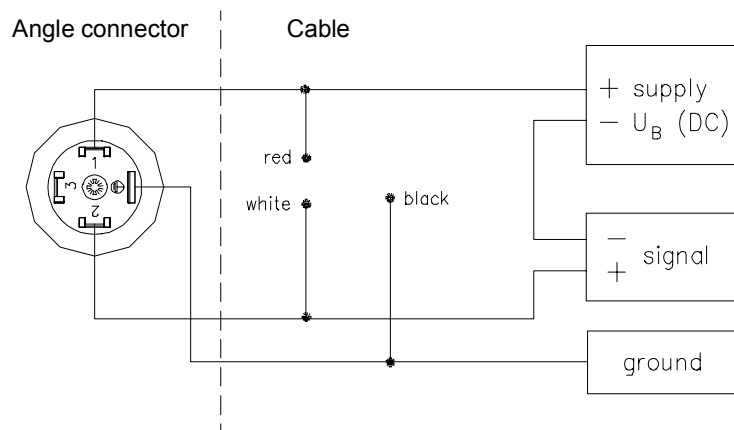


Technical specification	KXHP					
Measuring principle	piezoresistive					
Range [bar]	1000	1600	2500	4000	6000	7000
[psi]	15.000	30.000	40.000	60.000	90.000	100.000
Overpressure limit [bar]	1500	2400	37500	6000	9000	9000
Pressure type	Gauge					
Process connection	M16x1,5 female (high pressure) 9/16-18 UNF-2B Aminco (high pressure)					
Material	Stainless steel APX4 (17-4 PH for ranges $\geq$ 4000 bar) Stainless steel AISI 304 (1.4301)					
Power supply	12 ... 30 VDC			10 ... 15 VDC		
Output signal	4 ... 20 mA, 2-wire			250 mV at 12 VDC, 4-wire		
Bridge resistant				1,3 k $\Omega$		
Maximum loop resistance	$\leq R_a - 50 \times (U_o) - 4 \Omega$			> 1 M $\Omega$		
Isolation between case and electrical connection	> 1000 M $\Omega$ at 50 VDC					
Isolation voltage	350 VAC					
Supply current	max.. 20 mA for 4 ... 20 mA output signal					
Accuracy according DIN 16 086	1% F.S.					
Repeatability	$\leq \pm 0,1\%$ F.S.					
Zero offset	$\leq \pm 2\%$ F.S.					
Permissible						
Operation temperature	-25 ... 85°C					
Medium temperature	-25 ... 85°C					
Storage temperature	-25 ... 85°C					
Compensated temperature	-10 ... 65°C					
Temperature influence	$\pm 0,3\%$ / 10 K (ref. 20°C)					
CE-mark/EMC	Emission according EN 50 081-1 (March 1993) Immunity according EN 50 082-2 (March 1996)					
Electrical connection	4 PIN angle connector according DIN 43 650, cable connection					
Protection according EN 60 529/IEC 529	IP65					
Weight [kg]	approx. 0,1 kg					
Accessories, options	Indicators, panel or local					

General dimensions [mm]



Electrical connection



2-wire

Order information

Type	Output signal	Accuracy	Range	Engineering units	Protection	Process connection	Electrical connection	Options
XHP	(42) 4/20 mA  (MV) Direct bridge signal  Others on request	(100) 1,0%	0/ 1000 0/ 1600 0/ 2500 0/ 4000 0/ 6000 0/ 7000  Others on request	BAR  psi and others on request	(=) IP65	(76) M16x1,5 female  (09) 9/16-18 UNF-2B (Aminco)  Others on request	(M1) Angle connector according DIN 43 650  (F2) Cable connection  Specify cable lengths in [m]	(NH) Tagging wired

How to order

Series	Type	Signal output	Accuracy	Range	Engineering units	Protection	Process connection	Electrical connection	Option
K	XHP	42	100	0/7000	BAR	=	09	M1	NH