

SUCO DRUCKTRANSMITTER HIGH-PERFORMANCE SERIES SW 22



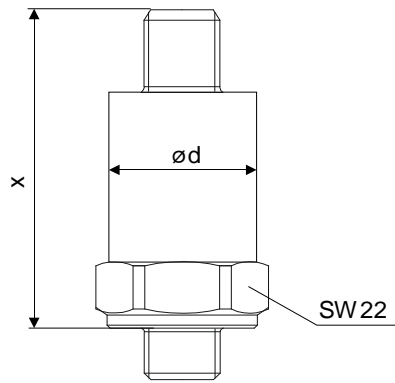
Silicon-on-Sapphire Technologie (SoS)
Wetted parts made of stainless steel and titanium

Outstanding overpressure protection (up to 4x)
ideal choice for mobile hydraulic applications
Long service life even under high pressure change rate
wetted parts made of stainless steel and titanium
ensuring excellent media compatibility,
all welded design, no elastomeric seal, very low
temperature error and very good long-term stability



Type	0705			0710				0720		
Output signal	0,5-4,5 V ratiometric			0-10 V (3-wire)				4-20 mA (2-wire)		
Supply voltage U_B	5 VDC \pm 10% max.6,5 VDC			12-32 VDC				10-32 VDC		
Permissible load apparent ohmic resistance	$\geq 4,7\Omega$			$\geq 4,7\Omega$				$\leq (U_b-10V) / 20 \text{ mA}$		
Idle power consumption	ca. 5 mA			ca. 5 mA				ca. 5 mA		
Standard press.ranges in bar	0-10	0-16	0-25	0-40	0-60	0-100	0-160	0-250	0-400	0-600
Overpressure protection in bar	40	64	100	160	240	400	640	1000	1600	1650
Burst pressure in bar	80	128	200	320	480	800	1280	2000	2000	2000
	Static pressure, dynamic pressure 30 to 50 % lower. Values refer to the hydraulic or pneumatic part of the pressure transmitter.									
Mechanical life expectancy	10 Mio pulsations at rise rates to 1 bar/ms at standard pressure ranges									
Pressure rise	$\leq 5 \text{ bar / ms}$									
Accuracy	$\pm 0,5 \%$ full scale (FS) at room temperature, $\pm 0,25\%$ BFSL									
Long term stability	$< \pm 0,1\%$ full scale (FS) p.a.									
Repeatability	$\pm 0,1\%$ full scale (FS) (within the compensated temperature range)									
Temperature error	$\pm 0,01\%$ full scale (FS) / $^{\circ}\text{C}$, -1...1 bar 0,03% (within the compensated temp. range)									
Comp. temperature range	-40 $^{\circ}\text{C}$...+80 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$...+176 $^{\circ}\text{F}$)									
Temperature range ambient	-40 $^{\circ}\text{C}$...+100 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$...+212 $^{\circ}\text{F}$)									
Temperature range media	-40 $^{\circ}\text{C}$...+125 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$...+257 $^{\circ}\text{F}$)									
Wetted parts material	Stainless steel 1.4305 / SAE Grade 303, titanium									
Thread	G 1/4 DIN 3852-E; G 1/4 DIN 3852-A NPT 1/8 (max. 250 bar) NPT 1/4 M 10 x 1 zyl. (max. 250 bar); M 14 x 1,5 - DIN 3852-E 7 / 16 -20 UNF (max. 250 bar); 9 / 16-18 UNF									
Insulation resistance	$> 100 \text{ M}\Omega$ (500 VDC, $R_i > 42 \Omega$)									
Response time 10-90 %	$< 2 \text{ ms}$									
Vibration resistance	20 g; at 4...2000 Hz sine wave; DIN EN 60068-2-6									
Shock resistance	Halfe sine wave 500 m/s 2 , 11 ms; DIN EN 60068-2-27									
Protection clatt	refer to the electrical connections									
Electromagnetic compatibility	EMV 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007									
Max. length of connect. cable	30 m									
Protection	Protection against reverse polarity, short-circuit and overvoltage built-in									
Weight	approx. 80 g (DIN EN 175301 approx. 110 g, cable outlet approx. 135 g)									

Dimensions and electrical connectors



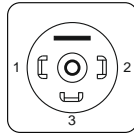
**Coupler socket
DIN EN 175301-803-A**

IP65

x ~ 60 mm without coupler socket

x ~ 76 mm with coupler socket

d ~ 30 mm



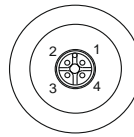
PIN	0705+0710	0720
1	U _{v+}	U _{v+}
2	Gnd	I _{out}
3	U _{out}	nc

M12-DIN EN 61076-2-101 A

IP67

x ~ 54 mm

d ~ 22 mm

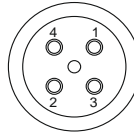


PIN	0705+0710	0720
1	U _{v+}	U _{v+}
2	U _{out}	nc
3	Gnd	I _{out}
4	nc	nc

Bayonet ISO 15170-A1-4.1

x ~ 65 mm

d ~ 27 mm



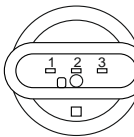
PIN	0705+0710	0720
1	U _{v+}	U _{v+}
2	Gnd	nc
3	U _{out}	I _{out}
4	nc	nc

AMP

IP67

x ~ 73 mm

d ~ 26 mm



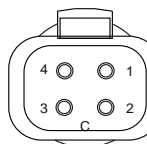
PIN	0705+0710	0720
1	U _{out}	nc
2	Gnd	I _{out}
3	U _{v+}	U _{v+}

Deutsch DT04-4P

IP67, IP6K9K

x ~ 74 mm

d ~ 23 mm



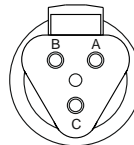
PIN	0705+0710	0720
1	Gnd	I _{out}
2	U _{v+}	U _{v+}
3	nc	nc
4	U _{out}	nc

Deutsch DT04-3P

IP67, IP6K9K

x ~ 74 mm

d ~ 23 mm



PIN	0705+0710	0720
A	U _{v+}	U _{v+}
B	Gnd	nc
C	U _{out}	I _{out}

Cable connection

IP67

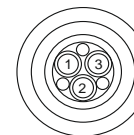
x ~ 44 mm

+20 mm Bend relief

Cable length ~ 2m

d ~ 22 mm

- 1 red
- 2 white
- 3 black



PIN	0705+0710	0720
1	U _{v+}	U _{v+}
2	U _{out}	nc
3	Gnd	I _{out}