


● Eigenschaften

2 - TRANSMITTER -

	Pressure:	Relative
	Ranges:	0...6 bar up to 0...600 bar
	Output:	4...20 mA / 0...10 V / 1...5 V / 0,5...4,5 V
	Accuracy:	1% of span / 2% of span
	Temperature medium:	-40...+125 °C
	Material case:	plastic PTB
	Pressure connection:	G1/4A / M14x1,5 / 7/16-20UNF-2A / 1/4 NPT
	Electrical connection:	see technical data
Protection:	IP67 at least	

● Technical data

Pressure input

Relative pressure:	0...6 up to 0...600 bar
Ranges:	see table page 2
Over pressure safety:	see table page 2
Burst pressure:	see table page 2

Analog output

4...20 mA:	2-wire	Load:	maximum (U+ - 10 V) / 0,02 A
1...5 V:	3-wire	Load:	>2,5 kΩ
0...10 V:	3-wire	Load:	>5 kΩ
0,5...4,5 V:	3-wire	Load:	>4,5 kΩ (ratiometric)
Response time 10...90%:	<2ms		

Performance

Accuracy:	<1% of span <2% of span for ranges 16 bar Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2)
Non-linearity:	<0,4% of span (BFSL according to IEC 61298-2)
1-year stability:	<0,3% of span (at reference conditions)

Supply

Voltage:	With output 4...20 mA:	10...36 VDC
	With output 1...5 V:	8...36 VDC
	With output 0...10 V:	14...36 VDC
	With output 0,5...4,5 V:	5 VDC ±0,5 V
Insulation voltage:	500 VDC	
Wiring protection:	Short-circuit proofness:	S+ towards U-
	Reverse polarity protection:	U+ towards U- (not with ratiometric signal output)

● Applications

The pressure transmitter is particularly suitable for all ranges of mobile hydraulics (hydraulic drive control, load moment limitation, load monitoring) with rough operating conditions.



● Technical data (continued)

Ambient conditions

Ambient temperature:	-40...+100 °C
Storage temperature:	-40...+120 °C
Medium temperature:	-40...+125 °C
Rated temperature range:	0...+80 °C
Temperature error:	<1% of span (typically) within rated temperature range <1,5% of span maximum within rated temperature range
CE-conformity:	Pressure equipment directive: 97/23/EG EMC-directive: 2004/108/EG EN 61326: Emission (Group 1, Class B) and immunity (table 2)
Shock resistance:	500 g according to IEC 60068-2-27 (mechanical shock)
Vibration resistance:	20 g according to IEC 60068-2-6 (vibration under resonance)

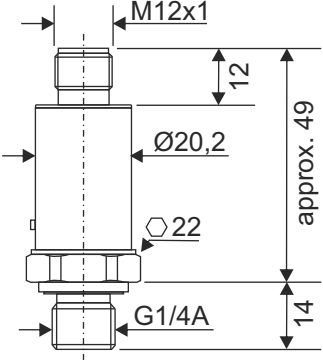
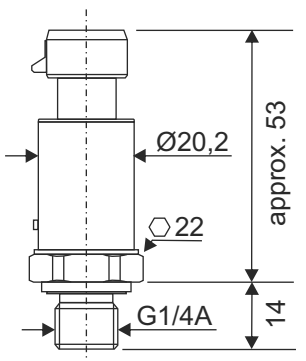
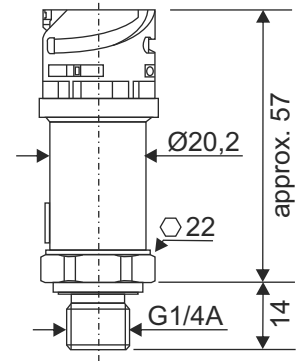
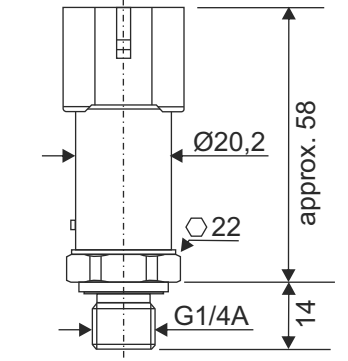
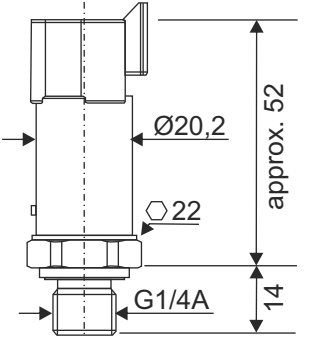
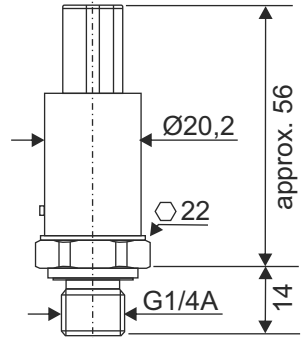
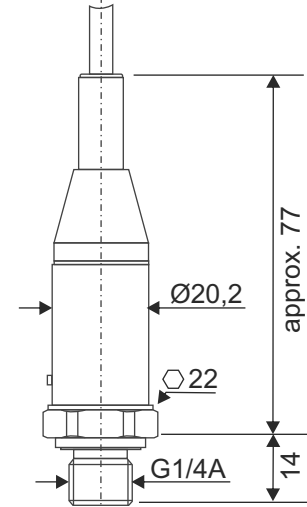
Mechanics

Material	Case: plastic PTB
Pressure connection:	Pressure connection: stainless steel, in contact with medium G 1/4 A (DIN 3852-E) with sealing NBR (FKM) M14x1,5 DIN 3852-E 7/16-20UNF-2A (SAE J514 Fig. 34B) with Boss O-ring FKM 1/4 NPT ANSI/ASME B1.20.1 (see also page 3)
Electrical connection:	Circular connector M12x1, 4-pole Connector Metri Pack Series 150, 3-pole Bayonet connector per DIN 72585, 4-pole Connector AMP Superseal 1,5, 3-pole Connector Deutsch DT04-3P, 3-pole Cable (flying leads), TPE, length 0,5 or 2 m AMP Micro Quadlock, 3-pole (see also page 4)
Protection:	at least IP67 per IEC 60529
Weight:	approx. 70 g

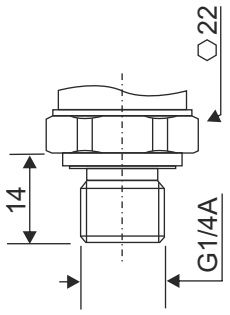
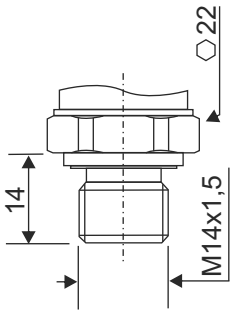
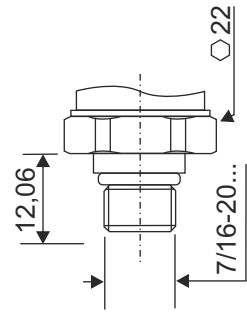
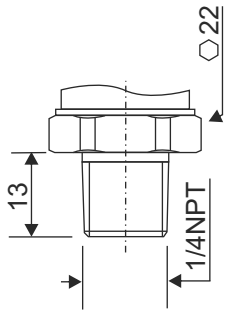
Pressure table

Pressure ranges	6	10	16	25	40	60	100	160
Over pressure safety	20	20	32	50	80	120	200	320
Burst pressure	100	100	160	250	400	550	800	1000
Pressure ranges	250	400	600					
Over pressure safety	500	800	1200					
Burst pressure	1200	1700	2400					

● **Dimensions (in mm)**

<p>Circular connector M12x1</p> 	<p>Connector Metri Pack Series 150</p> 	<p>Bayonet connector per DIN 72585</p> 	<p>Connector AMP Superseal 1.5</p> 
<p>Connector Deutsch DT04-3P</p> 	<p>AMP Micro Quadlock</p> 	<p>Cable (flying leads)</p> 	

● **Pressure connection (in mm)**

<p>G1/4 DIN 3852-E with sealing NBR (FKM)</p>	<p>M14x1,5 DIN 3852-E</p>	<p>7/16-20 UNF-2A SAE J514 Fig. 34B with Boss O-ring FKM</p>	<p>1/4NPT ANSI/ASME B1.20.1</p>
			

CDS system: reduced pressure channel diameter for damping of pressure peaks and against cavitation.
For installation and safety instructions see operating instructions.

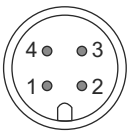
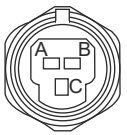
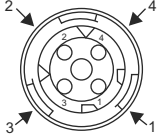
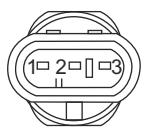
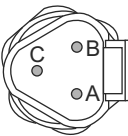
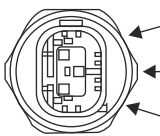
● **Ordering code**

U B X X X X X X - X X X

Pressure:	Relative pressure	0																			
Contact with medium:	Stainless steel	0																			
Output:	4...20 mA	0																			
	1...5 V	1																			
	0...10 V	2																			
	0,5...4,5 V	3																			
Process connection:	G1/4 A (DIN 3852-E)	0																			
	M14x1,5 (DIN 3852-E)	1																			
	7/16-20UNF-2A	2																			
	1/4"NPT	3																			
Electrical connection:	M12x1	0																			
	Metri Pack Series 150	1																			
	Bayonet	2																			
	AMP Superseal 1,5	3																			
	Deutsch DT04-3P	4																			
	Cable	5																			
	AMP Micro Quadlock	6																			
Temperature medium:	-40...+125 °C	0																			
Pressure range:¹⁾	(please specify)																			X	
Other:	Special model																				0

1) Pressure range: 0 = 0...6 / 1 = 0...10 / 2 = 0...16 / 3 = 0...25 / 4 = 0...40 / 5 = 0...60 / 6 = 0...100 / 7 = 0...160 / 8 = 0...250 / 9 = 0...400 / A = 0...600 bar

● **Electrical connection**

	M12x1, 4-pole	Metri Pack Series 150, 3-pole	Bayonet 4-pole	AMP Superseal 1,5 3-pole
4...20 mA (2-wire)	U+ = 1 U- = 3	U+ = B U- = A	U+ = 1 U- = 2	U+ = 3 U- = 1
1...5 V / 0...10 V / 0,5...4,5 V (all 3-wire)	U+ = 1 U- = 3 S+ = 4	U+ = B U- = A S+ = C	U+ = 1 U- = 2 S+ = 3	U+ = 3 U- = 1 S+ = 2
				
Protection	IP 67	IP 67	IP 69K	IP 67
	Deutsch DT04-3P 3-pole	Cable	AMP Micro Quadlock 3-pole	
4...20 mA (2-wire)	U+ = A U- = B	U+ = brown U- = green	U+ = 3 U- = 1	Note: The ingress protection classes specified only apply while the transmitter is connected with female connectors that provide the corresponding ingress protection.
1...5 V / 0...10 V / 0,5...4,5 V (all 3-wire)	U+ = A U- = B S+ = C	U+ = brown U- = green S+ = white	U+ = 3 U- = 1 S+ = 2	
		0,75 mm ² with end splices Ø cable: 6,6 mm		
Protection	IP 67	IP 69K	IP 67	

Legend: 2-wire: 2 connection lines are used for the power supply. The measurement signal also provides the supply current.

3-wire: 2 of the connection lines are used for the power supply. One connection line is used for the measurement signal.

U+ = Positive power terminal

U- = negative power terminal

S+ = Positive measurement terminal

Subject to change, version 40-560