

T.5

hex 22
stainless steel

Digital Pressure Transmitter with CANopen / CAN J1939 Interface

Hex 22



- Type 0630: CANopen protocol according to CiA DS-301, Device profile according to CiA DS-404
- Type 0631: CAN J1939 protocol according to SAE J1939
- Robust stainless steel construction with high reliability, even in very rough environments
- Completely welded measuring cell made of stainless steel 1.4542 ensures excellent media compatibility
- Measuring ranges from 0 - 1 bar to 0 - 600 bar

Digital Pressure Transmitter with CANopen / CAN J1939 Interface

Technical data

Type:	0630	0631
Output protocol:	CANopen DIN EN 50325-4 ^{1) 2)}	SAE J1939 ¹⁾
Supply voltage U _B :	10 V - 32 VDC	10 V - 32 VDC
Idle power consumption:	< 30 mA	< 30 mA
CAN Interface:	acc. to DIN ISO 11898-2 CAN 2.0 A	acc. to DIN ISO 11898-2 CAN 2.0 B

Type:	0630 / 0631						
Standard pressure ranges p _{nom} :	0 - 1 bar	0 - 2,5 bar	0 - 4 bar	0 - 6 bar	0 - 10 bar	0 - 16 bar	0 - 25 bar
Overpressure protection p _u ³⁾ :	6 bar	6 bar	10 bar	20 bar	20 bar	40 bar	100 bar
Burst pressure ³⁾ :	9 bar	9 bar	15 bar	30 bar	30 bar	60 bar	150 bar
Standard pressure ranges p _{nom} :	0 - 40 bar	0 - 60 bar	0 - 100 bar	0 - 160 bar	0 - 250 bar	0 - 400 bar	0 - 600 bar
Overpressure protection p _u ³⁾ :	100 bar	200 bar	200 bar	400 bar	750 bar	750 bar	840 bar
Burst pressure ³⁾ :	150 bar	300 bar	300 bar	600 bar	1000 bar	1000 bar	1050 bar
Mechanical life expectancy:	10.000.000 pulsations at rise rates to 1 bar/ms at p _{nom}						
Permitted pressure change rate:	≤ 1 bar/ms						
Accuracy:	±0,5 % of full scale (FS) at room temperature ⁴⁾ , ±0,25 % BFSL						
Long-term stability:	< ±0,1 % of full scale (FS) per year						
Repeatability ⁵⁾ :	±0,1 % of full scale (FS)						
Temperature error ⁵⁾ :	1,5 % of full scale (FS)						
Compensated temperature range:	-20 °C ... +85 °C						
Temperature range ambient:	-40 °C ... +105 °C						
Temperature range media:	-40 °C ... +125 °C						
Wetted parts material	Housing:	Stainless steel 1.4301 / AISI 304					
	Measuring cell:	Stainless steel 1.4542					
Electric strength:	50 VDC						
Response time 10 - 90 %:	< 1 ms						
Vibration resistance:	20 g acc. to IEC 68-2-6 and IEC 68-2-36						
Shock resistance:	1000 g acc. to IEC 68-2-32						
Protection class:	IP67 (IP00 without mating plug)						
Electromagnetic compatibility:	EN 61326						
Weight	80 g - 120 g (dependent on version)						

¹⁾ Further information and the standard setting can be found in the Technical Documentation CANopen (1-6-30-628-058) as well as CAN J1939 (1-6-30-628-059) on our homepage at: <https://www.suco.de/en/downloads>.

²⁾ The EDS (Electronic Data Sheet) of our CANopen device can be downloaded from our homepage at: <https://www.suco.de/en/downloads>.

³⁾ Static pressure. Dynamic value is 30% to 50% lower. Values refer to the hydraulic/pneumatic part of the pressure transmitter.

⁴⁾ Including non-linearity, hysteresis, repeatability, zero error and full scale (FS) according to IEC 61298-2.

⁵⁾ Within the compensated temperature range.

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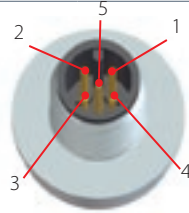
Stainless steel

0630 / 0631

Electrical connectors and threads



M12 DIN EN 61076 - 2-101 A
CiA-DR303-1



0630 / 0631

1: nc

2: Uv+

3: Gnd

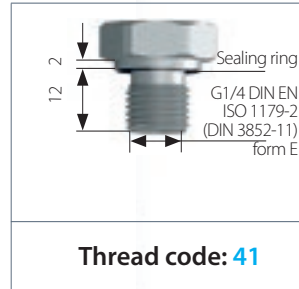
4: CAN-High

5: CAN-Low

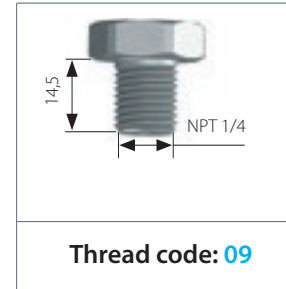
x ~ 60 mm

d ~ Ø 22 mm

Order number: 032



Thread code: 41



Thread code: 09



0630 / 0631

Order matrix for digital pressure transmitters

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	Type	Pressure range	Pressure connection	Pressure unit	Electrical connection
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CANopen, CAN 2.0 A	0630
CAN J1939, CAN 2.0 B	0631

Pressure range ¹⁾	Max. overpressure ²⁾	
0 - 1.0 bar (approx. 14 PSI)	6 bar	100
0 - 2.5 bar (approx. 36 PSI)	6 bar	250
0 - 4.0 bar (approx. 58 PSI)	10 bar	400
0 - 6.0 bar (approx. 87 PSI)	20 bar	600
0 - 10 bar (approx. 145 PSI)	20 bar	101
0 - 16 bar (approx. 232 PSI)	40 bar	161
0 - 25 bar (approx. 362 PSI)	100 bar	251
0 - 40 bar (approx. 580 PSI)	100 bar	401
0 - 60 bar (approx. 870 PSI)	200 bar	601
0 - 100 bar (approx. 1.450 PSI)	200 bar	102
0 - 160 bar (approx. 2.320 PSI)	400 bar	162
0 - 250 bar (approx. 3.620 PSI)	750 bar	252
0 - 400 bar (approx. 5.800 PSI)	750 bar	402
0 - 600 bar (approx. 8.700 PSI)	850 bar	602



Pressure connection

G1/4 - (DIN 3852), form E, male thread	41
1/4 NPT	09



Pressure unit

bar	B
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Electrical connection

M12x1 - DIN EN 61076-2-101 A, CiA-DR303-1	032
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Order number:	063X	XXX	XX	B	032
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¹⁾ The proprietary PGN and SPN of the respective pressure range can be found in the Technical Documentation CAN J1939 (1-6-30-628-059) on our homepage at: <https://www.suco.de/en/downloads>.
²⁾ Static pressure. Dynamic value is 30 to 50% lower. Values refer to the hydraulic/pneumatic part of the pressure transmitter.

