HIRSCHMANN
A Belden Company

Controls | Consoles | SLIs | Sensors | Service

pSENS DAVS

Pressure transducers with current or CANopen interface (250...600 bar)

The Hirschmann pressure transducers measure high static an dynamic pressure values of liquids or gases in rough operating environments. Measuring precision is maintained even during continuous operation at extremely dynamic pressure.

The pressure transducers come with a pressure conector with standardized G1/4 A thread. The matching hydraulic adaptor is available as accessory.

These pressure transducers are preferably used as part of a Hirschmann load moment indicator system or Hirschmann control system in hydraulic systems for cranes. Since the pressure transducers are suitable for rough environments, they also offer an ideal solution for control and automatic control applications in hydraulic systems of construction equipment, and conveyor and lifting equipment.

- High accuracy
- High overload capacity and endurance limit
- Very rugged design
- Great operating reliability under extreme conditions
- Cost effective solution

J2 electronics
Ndr. Fovrefeldvej 44
DK 6710 Esbjerg V.
Phone: +45 70221955
www.j2.dk

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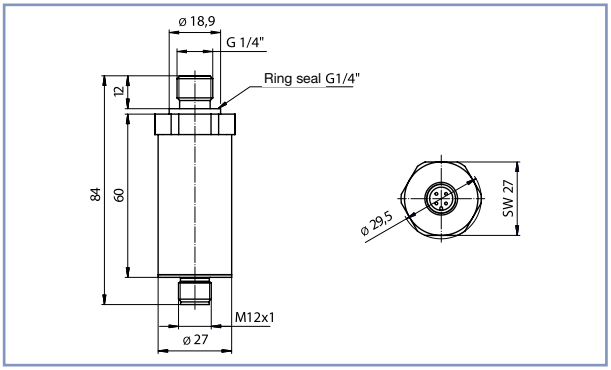
TECHNICAL DATA

	Decription	pSENS DAVS					
Input data	Measuring ranges (bar)	250	300	350	400	500	600
	Overload pressures (bar)	1200	1200	1200	1200	1200	1200
	Burst pressures (bar)	2400	2400	2400	2400	2400	2400
	Mechanical Connection	G1/4 A, DIN 3852, with nozzle 0.5 mm					
	Torque rating	20 Nm approx.					
	Parts in contact with media	stainless steel / Viton® seal					
Output data	Signal (current output)	4…20 mA					
	Signal (CAN)	CANopen interface					
	CAN Bus protocol	CAN 2.0 B, standard identifier (11 bit)					
	CANopen protocol	CiA DS 301, Device Profil acc. to DS 401					
	Physical transfer	2 wire, 5 V level, CAN high speed ISO 11898-2 (24 V short circuit protection)					
	Curve deviation at max. setting to DIN 16068 (accuracy class)	±0.25% FS typ. / ±0.5% FS max.					
	Curve deviation at min. setting (B.F.S.L.)	±0.15% FS typ. / ±0.25% FS max.					
	Temperature comp.	±0.08%/10K typ. / ±0.15%/10K max.					
	Temperature comp. over	±0.08%/10K typ. / ±0.15%/10K max.					
	Linearity at max. setting DIN acc. to 16086	±0.3% FS max.					
	Hysteresis	±0.1% FS max.					
	Repeatability	±0.05% FS					
	Long-term drift	±0.1% FS typ. / year					
Ambient conditions	Nominal temperature	-25 °C to +85 °C					
	Operating temperature	-40 °C to +85 °C					
	Storage temperature	-40 °C to +100 °C					
	Fluid temperature range	-40 °C to +100 °C					
	Vibration resistance	<20 g (to IEC 68-2-6 at 10…500 Hz)					
	CE-mark	EN 61000-6-1, EN 61000-6-2 EN 61000-6-3, EN 61000-6-4					
	Protection class	IP 67 (to DIN 40050)					
Other data	Supply voltage	8 - 32 V DC					
	Residual ripple supply voltage	< 5%					
	Life expectancy	> 10 million cycles 0…100% FS					
	Protection	Reverse polarity protection of supply voltage, excess voltage, override and short circuit protection					
	mounting position	any					
	Weight, approx.	0.15 kg					

Versions	Pressure range	Order-No.
pSENS DAVS 250/1401 (4…20 mA)	250 bar	606 666
pSENS DAVS 300/1401 (4…20 mA)	300 bar	606 652
pSENS DAVS 350/1401 (4…20 mA)	350 bar	606 668
pSENS DAVS 400/1401 (4…20 mA)	400 bar	606 669
pSENS DAVS 500/1401 (4…20 mA)	500 bar	606 670
pSENS DAVS 600/1401 (4…20 mA)	600 bar	606 647
pSENS DAVS 300/1501 CANopen	300 bar	606 667
pSENS DAVS 600/1501 CANopen	600 bar	606 673

Accessory (optional)	Adaption from / to	Order-No.
Hydraulic adapter	G 1/4 / M16x1.5 I-EOL	532 674
Hydraulic adapter	G 1/4 / M16x1.5 A-EOL	532 675
Hydraulic adapter	G 1/4 / M30x2 A-EOL	532 676
Hydraulic adapter	G 1/4 / M30x2 A-DKA	532 677
Cable adaptor 0.3 m	M12 x1 / CANNON 3-pol.	532 726

Dimensions



Connector pin assignment (M12x1)

CANopen options

pin 1	shielding
pin 2	+ Ub
pin 3	0 V
pin 4	CAN high
pin 5	CAN low

Options 4 ... 20 mA

pin 1	+Ub
pin 2	*** ⚠ do not use
pin 3	0 V
pin 4	signal (4 ...20mA)

Hirschmann Automation and Control GmbH
Branch Office Ettlingen
Hertzstraße 32-34 • 76275 Ettlingen
Phone: +49 7243 709-0 • Fax: +49 7243 709-3222
www.hirschmann-ac.com

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Ndr. Fovrefeldvej 44
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