



HIRSCHMANN

A **BELDEN** BRAND

pSENS DAVS

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

	Controls
	Consoles
	SLIs
	Sensors
	Service



Hirschmann pressure transducers measure the static and dynamic pressure values of liquids or gases in rough operating environments. Precise measurements are maintained even during continuous operation at extremely dynamic pressure.

The pressure transducers include a pressure connector with a standardized G1/4 A thread. The matching hydraulic adaptor is available as an accessory.

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

- Highly accurate
- High overload capacity and endurance limit
- Very rugged design
- Reliable under extreme conditions
- Cost effective solution
- Temperature range -40 °C up to +85 °C



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Technical Data

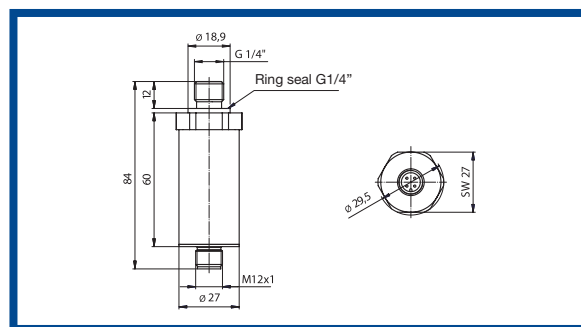
Description		pSENS DAVS					
Input data	Measuring ranges (bar)	250	300	350	400	500	600
	Measuring ranges (bar)	1200	1200	1200	1200	1200	1200
	Burst pressures (bar)	2400	2400	2400	2400	2400	2400
	Mechanical Connection	G1/4 A, DIN 3852, with nozzle 0.5 mm					
	Torque rating	20 Nm approx.					
	Parts in 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					
	Emounting position	any					
	Weight, approx.	0.15 kg					
EN 13849-1		PL, MTTfD and DC available on request					

Specifications are subject to change without notice.

Versions	Pressure range
pSENS DAVS 250/1401 (4...20 mA)	250 bar
pSENS DAVS 300/1401 (4...20 mA)	300 bar
pSENS DAVS 350/1401 (4...20 mA)	350 bar
pSENS DAVS 400/1401 (4...20 mA)	400 bar
pSENS DAVS 500/1401 (4...20 mA)	500 bar
pSENS DAVS 600/1401 (4...20 mA)	600 bar
pSENS DAVS 300/1501 CANopen	300 bar
pSENS DAVS 600/1501 CANopen	600 bar

Accessory (optional)	Adaption from / to
Hydraulic adapter	G 1/4 / M16x1.5 I-EOL
Hydraulic adapter	G 1/4 / M16x1.5 A-EOL
Hydraulic adapter	G 1/4 / M30x2 A-EOL
Hydraulic adapter	G 1/4 / M30x2 A-DKA
Cable adaptor 0.3 m	M12 x1 / CANNON 3-pol.

Dimensions



Connector pin assignment (M12x1)

CANopen options	Options 4 ... 20 mA
pin 1 shielding	pin 1 +Ub
pin 2 + Ub	pin 2 *** ⚠ do not use
pin 3 0 V	pin 3 0 V
pin 4 CAN high	pin 4 signal (4 ...20mA)
pin 5 CAN low	



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