



SA SERIES DATASHEET

GENERAL FEATURES	
Pressure ranges	0 to 5.2 bar (abs), through 1 to 46 bar (abs) (other pressure range and transfer function available on request)
Over pressure	25 to 91 bar (abs) typical
Burst pressure	Brass, min 110 bar (abs)
Pressure connection	7/16" 20UNF (other connections available on request)
Pressure connection material	Brass (other materials available on request)
Tightening torque	Brass, 12 to 16 Nm
Electrical connection	Packard connector (other connections available on request)
Electrical connection material	PBT GF30
ELECTRICAL FEATURES	
Power supply (Vdd)	5Vdc \pm 10%. (Protected against polarity inversion and short circuit)
Supply current (Idd)	< 10 mA @ 5,5Vdc (8,5 mA typical)
Output voltage (Vout)	10% Vdd to 90% Vdd typical
Output current (Iout)	5mA typical
Output load	20 K Ω min. (Pull-up or Pull-down)
Insulation resistance	1 G Ω @ 50Vdc
Output response time	10 ms typical
Power supply overvoltage	18Vdc
Reverse voltage	-14Vdc
PERFORMANCE FEATURES	
Operating temperature	-40°C to 135°C
Storage temperature	-40°C to 150°C
Accuracy	\pm 1,2% F.S. (linearity, hysteresis, repeatability and calibration) Static error band @ 25°C, 5.0Vdc
Temperature error	\pm 0,013% F.S./°C
Cycle life	10 millions F.S. cycles
IP code	IP67 (with connector female IP67 plugged)
Fluids compatibility	refrigerants, gases, new HFO 1234ze refrigerant and associated oils. (other fluids compatibilities available on request)
Vacuum pressure (referred to refrigerant circuit)	0 bar (abs)
Drop (any axis)	1,5m
Vibration: IEC 60068-2-64:2008	12g (rms)
Shock: IEC 60068-2-27:2008	50g, 6ms
Weight	30 grams typical
EMC FEATURES (standards CEI EN 61326-1:2013 and CEI EN 61326-2-3:2014)	
Electrostatic discharge: CEI EN 61000-4-2:2011	\pm 4KV contact \pm 8KV air
Radiated immunity: CEI EN 61000-4-3:2007	3V/m (80 MHz \div 1 GHz) 3V/m (1,4 GHz \div 2 GHz) 1V/m (2 GHz \div 2,17 GHz)
Electrical fast transient/Burst: CEI EN 61000-4-4:2013	\pm 1KV
Surge: CEI EN 61000-4-5:2007	\pm 1KV
Conducted immunity: CEI EN 61000-4-6:2014	3V (0,15 \div 80 MHz)

Sensaggio S.r.l.

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