

DT98C685

PRESSURE SENSORS • CONNECTION G1/8" OUTER THREAD

Pressure sensors are suitable for measuring different media with high accuracy. They are available with switching output and/or analog output. Using PC software, the measured values can be recorded depending on the device type. These sensors can be used in all areas of e.g. pneumatic and hydraulic applications.



MECHANICAL DATA

Ambient temperature (MAX)	85 °C
Ambient temperature (MIN)	-40 °C
Bursting pressure	420 bar
CIP compatible	Yes
Degree of protection (IP)	IP67
Explosion-proof	No
For liquid media	Yes
For pasty media	Yes
Front-flush membrane	Yes
Housing design	Cylinder plain
Housing material	Stainless steel 1.4404
Max. operating pressure	100000 hPa
Max. operating pressure	100 bar
Medium temperature (MAX)	125 °C
Medium temperature (MIN)	-40 °C
Nominal pressure	100 bar
Pressure transmitter	Yes
Sensing element material	Stainless steel 1.4435
Sensor diameter	26.5 mm
Sensor length	90 mm
Thread length	20.5 mm
Thread pitch	1.81 mm
Type of pressure connection	G1/2 inch A
With hand operation	No

ELECTRICAL DATA

Electronic version	Yes
End value measuring range, pressure	10000000 Pa
Initial value of measuring range, pressure	0 Pa
Measurement method	Relative
Measuring range pressure (MAX)	100 bar

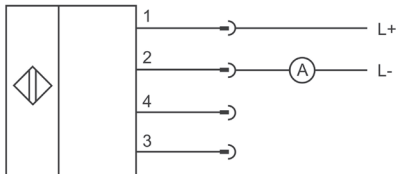
ELECTRICAL DATA

Number of pins	2
Operating voltage (MAX)	32 V
Operating voltage (MIN)	8 V
Rated operating voltage U _e at DC (MAX)	32 V
Rated operating voltage U _e at DC (MIN)	8 V
Relative measurement accuracy	0.5 %
Response time	10 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable as 2-point control	No
Suitable as limiter	No
Suitable as monitor	No
Temperature drift	0.75 %
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Plug-in connection M12
Voltage type	DC
With manual on/off switch	No

OTHER DATA

Compatible with foodstuff	Yes
For hydraulic applications	Yes
Measuring display	Relative

CONNECTION



Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 2 = 4-20mA/L-, 3 = n.c., 4 = n.c.

DIMENSIONAL DRAWING

INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.