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ESI - PR3100 - INDUSTRIAL PRESSURE SENSOR

PR3100EXV001AB
4-20mA, -1..0 bar, G1/4, DIN, Ex

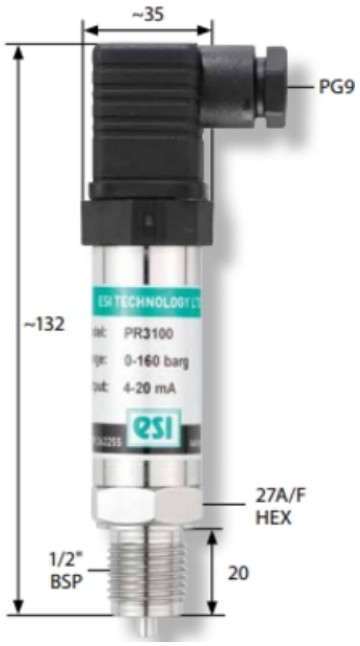
- Suitable for the majority of industrial applications
- Reliable pressure measurement
- Long service life
- All stainless steel construction

PRODUCT DESCRIPTION

The PR3100 is constructed from stainless steel which incorporates thick film, ceramic and bonded strain gauge technology. This offers excellent stability and accuracy over a long service life. On request this is also available in corrosion resistant materials. The available pressure range options are from 0-1Bar to 0-600Bar.

There are optional ATEX and IECEx approved versions of the PR3100 available for Explosion protection for flammable gases (zone0), dusts (zone 20) and mining areas (group I M1).

TECHNICAL DATA

Ambient temperature	-20..85°C
ATEX approved	Yes
Electrical connection	DIN A 43650
EMC	EN61000-6-4, EN61000-6-2
EX approvals	Ex II 1 D Ex ia IIIC T135 °C Da, Ex II 1 G Ex ia IIC T4 Ga, Ex I M 1 Ex ia I Ma
Linearity	≤±0.3% BSFL
Material of wetted parts	Stainless steel 316, Aluminium oxide, NBR
Media temperature	-20..85°C
Output	4-20 mA
Pressure range max	0 bar
Pressure range min	-1 bar
Pressure reference	Gauge or Absolute

Process connection	G1/4
Sensor technology	Thick film or Bonded foil strain gauge
Storage temperature	5..40°C
Supply voltage	13-36 V DC