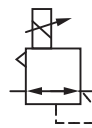


220 Series

Modular current to pressure (I/P) Pilot

- High performance OEM I/P
- Extremely low power consumption
- Minimal temperature and orientation effect
- Compact and rugged
- Patented technology
- Fast response
- Customisable to OEM applications



Technical features

The following specifications are typical for the device when configured as an ultra low power pilot (<6 milliwatt). Where application power tolerances allow these specifications can be adjusted to best suit specific OEM requirements for optimised accuracy, response time or pressure span.

Medium:
Oil free, dry air, filtered to <5µm

Output pressure:
0 ...1bar (0 ...15 psi)

Supply pressure:
At least 0,4 bar (10 psi) above maximum required output pressure, maximum 10 bar (145 psi) gauge.

Air consumption:
1,5 NI/min typical

Linearity:
≤ 2,0% of span

Hysteresis & deadband:
Typical ≤ 0,35% of span

Response time:
< 650 ms 10 ... 90% into a 3cc volume
≤ 300 ms 90 ... 10% into a 3cc volume.

Temperature sensitivity:
Typical 0,2% span/°C between -40°C and +85°C

Air supply sensitivity:
Typical < 1,5% of span for full supply pressure range.

Vibration effect:
<2% of span for vibration level up to, 2g 20 ... 150 Hz in any orientation.

I.P. Rating:
IP 30 as standard or customised to suit customer requirements

Mounting Position:
Any, to suit customer requirements

Connections:
Customised to suit customer requirements

Ambient/Media temperature:
-40°C ... +85°C (-40 ... 185°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body: Anodised aluminium
Cover: Glass reinforced PA
Diaphragms: NBR

Electrical parameters

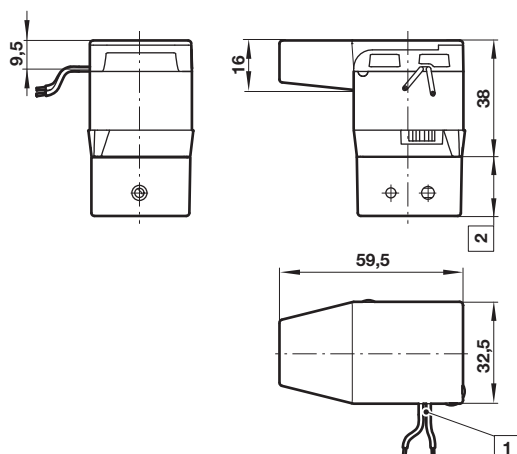
Input Signal	0 ... 1,7 mA - terminal voltage is 3,11 V at 1,7 mA
Loop Resistance	1,8 kΩ
Input Impedance	3,1 ... 3,2 V at 1,7 mA
Failure Mode	Output pressure falls to Zero setting on loss of signal
Connections	Customised to suit customer requirements

Ordering information

Option to special order
Performance parameters tuned to specific requirements
Ported or manifold mount base designed to application requirements
Optional enclosures
Application specific calibration and set-up

Basic dimensions

Dimensions in mm
Projection/First angle



- 1 Flying leads
- 2 Customer base design
(Given as example only)

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.