

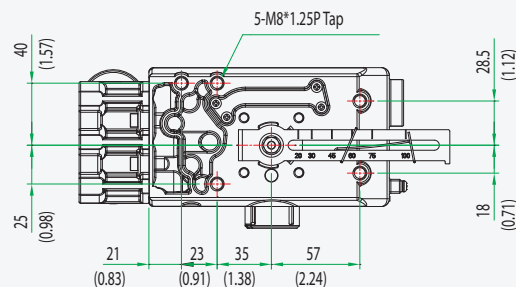
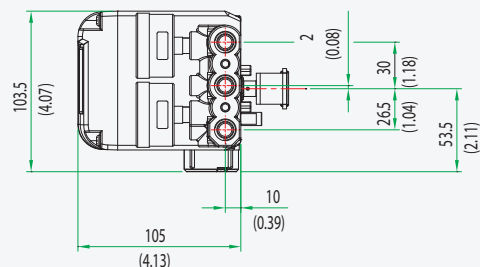
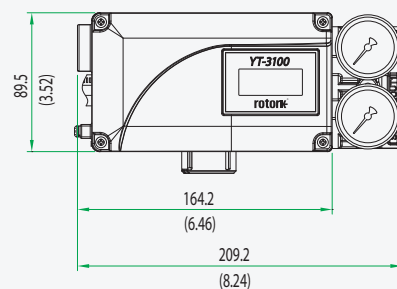
Compact smart positioner YT-3100

Design features

- **Compact.** Reliable and precise smart positioner, for linear and quarter-turn rotary actuators. Both single- and double-acting layouts are available.
- **Gauge manifold.** An option to keep the unit as compact as possible when gauges are not required.
- **Smart management system.** A clear and easy to navigate menu with four push buttons.
- **Visual self diagnostic.** Rated to NE107 standard for a user friendly and simplified troubleshooting process.
- **Position feedback.** 4-20 mA analogue completes the package, assuring full process control.
- **Non-contact sensor** for increased performance for high frequency operating valves and an enhanced lifetime.



YT-3100 aluminium enclosure with polycarbonate cover



Dimensions: mm (Inches ")

Compact smart positioner YT-3100

| Item Type | | YT-3100 |
|---------------------------|-------------|---|
| Input signal | | 4 to 20 mA DC |
| Supply pressure | | 0.14 to 0.7 MPa = 1.4 to 7 bar = 20 to 102 psi |
| Stroke | Linear type | 10 to 150 mm (0.4 to 6") |
| | Rotary type | 55 to 110° |
| Impedance | | Max. 500 Ω @ 20 mA DC |
| Air connection | | Rc ¼, ¼ NPT |
| Gauge connection | | Rc ⅛, ⅛ NPT |
| Conduit | | G ½ |
| Operating temp. | | -30 to +85 °C (-22 to +185 °F) |
| Linearity | | ±0.5% F.S. |
| Hysteresis | | ±0.5% F.S. |
| Sensitivity | | ±0.2% F.S. |
| Repeatability | | ±0.3% F.S. |
| Air consumption | | Below 2 LPM (sup = 0.14 MPa) Below 0.07 CFM (sup = 20 psi) |
| Flow capacity | | 70 LPM (sup = 0.14 MPa) 2.47 CFM (sup = 20 psi) |
| Output characteristics | | Linear, EQ%, quick open, user set |
| Material | | Housing: aluminium diecasting Cover: polycarbonate |
| Ingress protection | | IP66 |
| Explosion protection type | | ATEX / IECEx / CCC Ex ia IIC T5/T6 Gb |
| | | KCs Ex ia IIC T5/T6 |
| | | NEPSI Ex ia IIC T5/T6 Gb |
| | | Ambient temp: -30 to +60 °C (T5) / -30 to +40 °C (T6) |
| Weight | | 1.7 kg (3.7 lb) |

Product code

YT-3100 - L - S - N - 2 - 1 - 1 - 1 - S

Model

YT-3100 = Aluminium housing
and polycarbonate cover

Motion type

L = Linear
R = Rotary

Acting type

S = Single
D = Double

Explosion protection

N = Safe area
I = Intrinsically safe KCs, ATEX, IECEx, NEPSI
Z = Intrinsically safe CCC

Lever type

Linear Rotary
0 = 10 to 40 mm 5 = NAMUR
1 = 20 to 100 mm
2 = 90 to 150 mm

Conduit & air connection

1 = G ½ - Rc ¼
2 = G ½ - ¼ NPT

Gauges block

0 = NONE
1 = Gauges block

Options

0 = NONE
1 = PTM 4-20 mA feedback

Operating temp.

S = -30 to +85 °C (-22 to +185 °F)