

Air Pressure Regulator QTY4

QTY4 Series Air Pressure Regulators utilize the diffusion silicon piezoresistive effect to convert pressure into an electrical signal. This signal is then processed through amplification, upper/lower limit comparison, and logic circuits to control the blower's electric valve and regulate pressure accordingly. The product offers high sensitivity and strong reliability, with multiple specifications available. It is widely applied in railway locomotives of various international standards.

Parameters

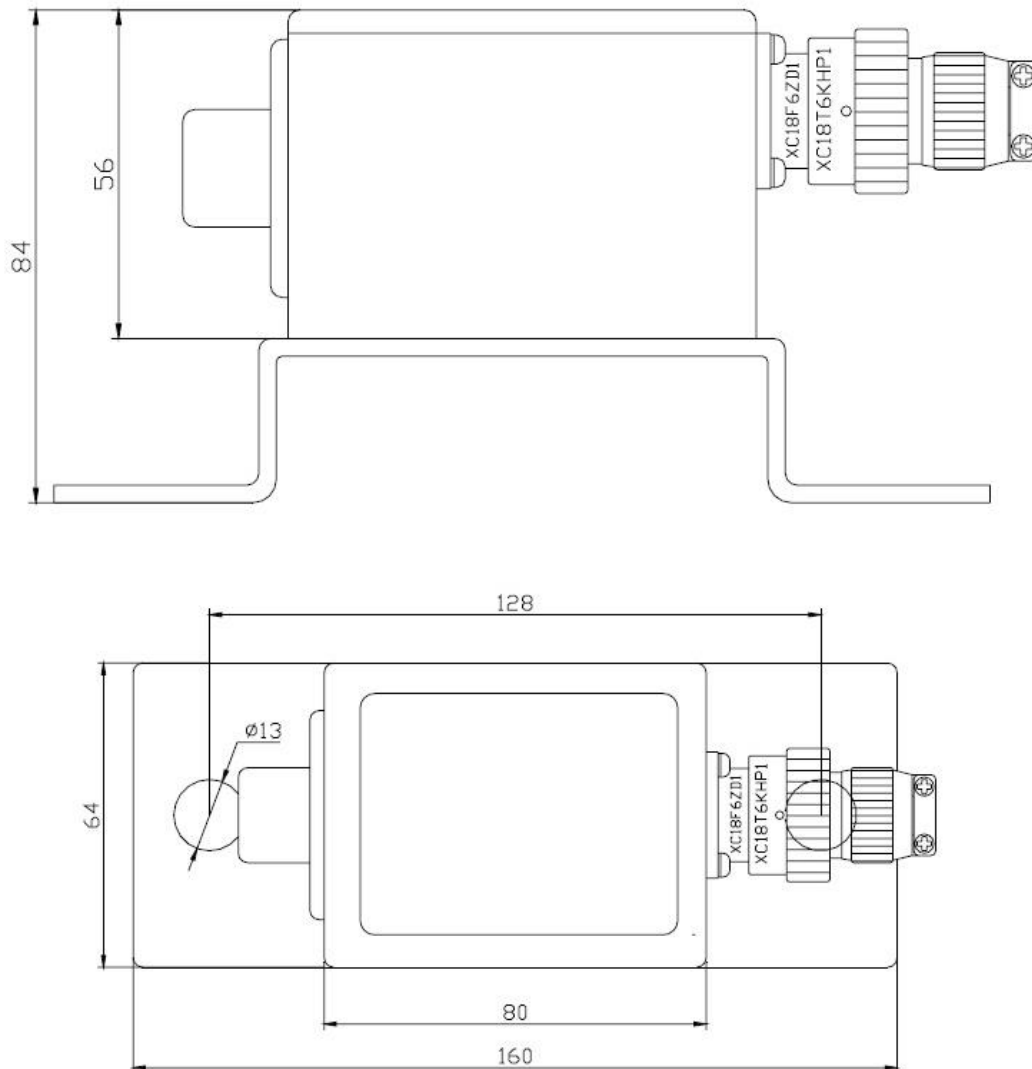
Operating Parameters

- Power Supply: 110VDC \pm 20%
- Current Consumption: Approx. 20mA (relay released)
Approx. 30mA (relay engaged)
- Upper Limit Pressure: 900kPa \pm 10kPa
- Lower Limit Pressure: 750kPa \pm 10kPa
- Relay Operating Voltage: 110VDC
- Relay Contact Current: Rated 5A, maximum 30A
- Maximum Switching Cycles: 100,000 operations
- Contact Resistance: $\leq 1\Omega$
- Load Voltage: $\leq 250\text{VAC}$
- Ingress Protection: IP65
- Operating Temperature: -40~70°C
- Relative Humidity: $\leq 90\%$

PIN Configuration

PIN1:	+110VDC	PIN4:	Not Connected
PIN2:	K-1	PIN5:	-110VDC
PIN3:	K-2	PIN6:	Not Connected

Outline & Interface



- Mounting Interface: R3/8 threaded connection
- Electrical Connector: XC18T6KHP1 / XC18F6ZD1

Notes

- Ensure that the operating conditions do not exceed the specified technical limits.
- Routing of the power cable should avoid high-voltage lines to prevent signal interference.
- Before operation, verify that the pipeline is unobstructed and free of leaks, and confirm the wiring is correct to ensure stable and accurate performance of the regulator.