



- Lower power consumption*
- Offers process feedback signal*
- High speed and high flow capacity*
- Precalibrated for most applications*
- Air piloted proportional pressure control valve*
- Offers dependable electrical to pneumatic conversion*

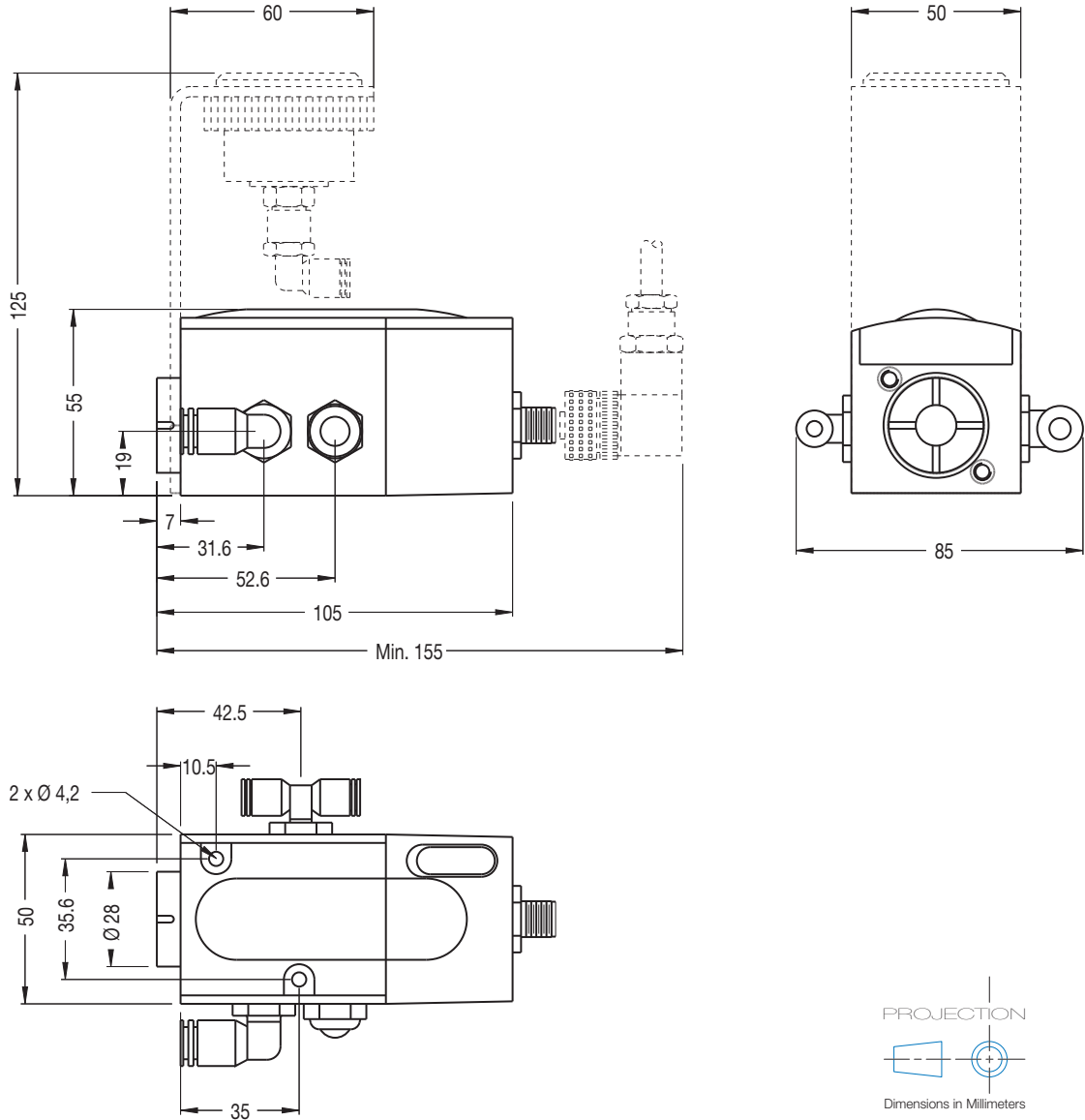
IP65 CE

System 3000™

MPC-5ce I/P-Converter

The Montalvo MPC-5ce electro-pneumatic converter provides accurate, dependable conversion of a DC current signal into a proportional pneumatic out-put. The MPC-5ce has a high flow rate, providing the rapid response required for accurate control of a dancer or loadcell tension control system. To simplify installation, "quick-disconnect" fittings are used for the pneumatic piping. Electrical connections are made to a M12 connector.

Specifications



Model	Part Number	Control Signal	Output
MPC-5ce	11505858	4 - 20 mA	0 - 6 bar
MPC-5.5ce	11505859	4 - 20 mA	0 - 5.2 bar
MPC-5.6ce	11505857	0 - 10 V	0 - 6 bar

Pneumatics

Flow Capacity Up to 1400NI/min
 Response Time ... < 80mS (from 10-90% of output pressure into a 0.1 litre load)
 Air Consumption < 5l/min
 Total Error Max. error < ± 1% of span

Other

Operating Temperature -5°C to + 50°C
 Temperature Effect Typically better than 0.03% of span/°C
 for span and zero over operating range
 Degree of protection IP65 in normal operation
 Vibration Immunity < 3% output shift for 3g 10-2000Hz
 Mounting Position Not critical
 Material of Construction Aluminium body, zinc diecast lid and end cover
 Weight 800g approx

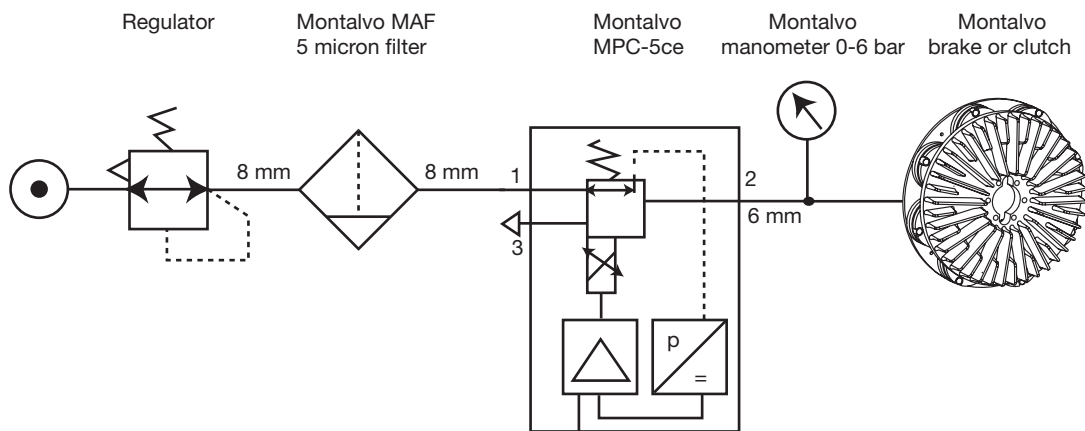
Options

Plug M12 5 pol for MPC-5ce Part no. 11505264
 Cable 5-core 5 m incl. plug for MPC-5ce Part no. 11505220
 Manometer mounted on bracket for MPC-5ce Part no. 11505881

Mounting

The MPC-5ce is supplied with a mounting kit consisting of: 2 pcs. screw M4x60, 2 pcs. nut M4, 2 pcs. toothed washer M4 and 2 pcs. washer M4. Mount the MPC-5ce as close as possible to the brake or clutch.,

Air Supply



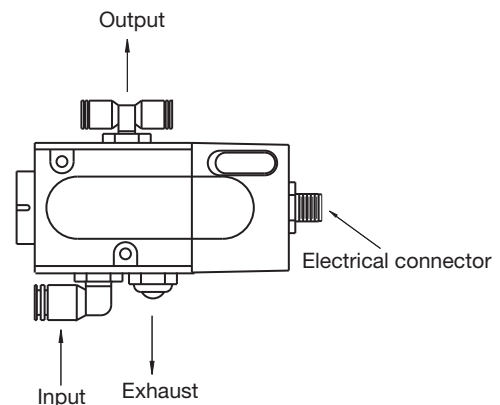
The air supply must be clean, dry and free of oil. Use a 5 micron (maximum) filter to remove dirt and liquid in the air line ahead of the I/P converter. The use of an optional Montalvo MAF filter system is recommended. Failure to do so may degrade the performance and service life of the I/P converter and will void the warranty. Regulate the maximum input air pressure 1 bar above max. output. Connect to the input with 8 mm nylon or polyethylene tubing.

Air Output

Connect to the output with 6 mm o.d. nylon or polyethylene tubing. Tubes in and to the brake must be temperature resistant tubes. Restrictions such as valves or fittings or large volume requirements may increase the response time of the system.

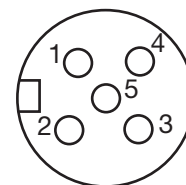
Pneumatic Connections

- Supply pressure: 1 bar (14.5psig) above maximum output required.
- Output pressure range: See table Fig. 1
- Requires 5 micron filter
- Port size: Input Ø8mm tube, output Ø6mm tube



Electrical Connections

- Power Supply: 18-30V < 1W
- Signal: See table Fig. 1
- Feedback: 0-10V full range



Connector pinout looking onto the end of the instrument.

- Pin 1: +24V.D.C. supply (brown)
- Pin 2: 0-10V full range (beige)
- Pin 3: control signal (-ve) (black)
- Pin 4: common (blue)
- Pin 5: chassis (green/yellow)

Calibration

MPC-5 is factory-calibrated, adjusted to the most brake/clutch applications. At special applications with a big air volume, please contact the service department at Danarota Technic A/S.

