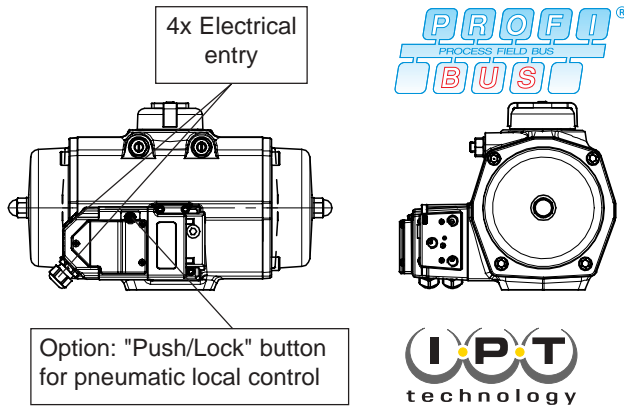


FieldQ valve actuator with Profibus™-DP "Open / Closed" Function module

Description

This FieldQ function module offers an integrated concept for valve automation. Its compact and robust construction incorporates basic control and feedback functionality and communicates through the Profibus™-DP protocol.



General specifications

Material housing : Aluminium alloy
 Electrical connections : Internal terminal strip.
 Optional quick connectors: Female Profibus-DP connector and *minifast*® power connector
 Cable entries : 4x M20x1.5 or 4x 1/2"NPT
 Enclosure : IP65 / NEMA 4
 Finish : Epoxy primer and two component polyurethane top coating
 Temperature : -20° to +70°C / -4° to 158°F
 Dimensions : See 1.603.01 for ISO 5211 (metric & UNC)
 See 1.603.02 for DIN 3337

Features

- Digital communication through **Profibus™-DP**.
- Profibus®-DP protocol.
- **Basic actuator functions** for fail safe (spring return) or double acting applications.
- All the control and feedback by **4-wire connection**.
- **IPT-technology** (Intelligent Position Tracking).
- **Initialization by bus** or **Push-button** for easy setup of the actuator.
- **Pressing 4 seconds** simultaneously the "Open" and "Closed" button starts auto-initialization procedure and sets automatically the feedback limit switches.
- **Adjustable position feedback** by pressing the button of the actual position for 5 seconds.
- **Feedback can be reversed** by pressing the opposite button of the actual position for 5 seconds.
- **Three indication LED's** for "Status", "Open" and "Closed" position. Status LED indicates initialization procedure running (blinking), successful initialization procedure (LED is on) or a failed initialization (flashing).
- Function module **can be easily plugged in** the pneumatic control module.

Hazardous area executions:

Non-Sparking:

- **ATEX** : II 3 G EEx nA II T4..T6 for use in Zone 2.

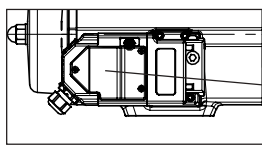
Non-Incendive:

- **FM/CSA** : Class 1, Div. 2 groups A,B,C & D T4..T6
 : Class I, zone 2, IIC T4..T6

Construction

The function module is mounted at the side of the Pneumatic Control Module in front of the basic actuator housing. Inside are terminals available for connecting Profibus®-DP wiring. Four cable entries are available for this purpose.

Profibus™-DP terminal wiring connections:



Terminal	Description
A	Green Profibus™-DP
B	Red in/out
1	+ 24VDC Power supply
2	-

Wiring dimensions

Cable range : 0.14 - 1.5mm² or 26-14 AWG
 For massive copper : 2.5mm² max.

Communication Protocol:

Profibus approval : Certificate No.: Z00556
 Communication protocol : Profibus™-DP
 Power supply : 24VDC
 Maximum current : 120mA

Function blocks

DO : Control of actuator
 DI1 : Feedback open position
 DI2 : Feedback closed position

Options

- Pneumatic manual control : "Push/Lock" button.

