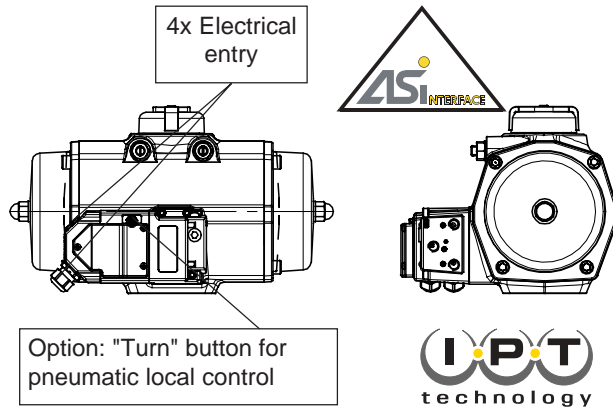


## FieldQ valve actuator with AS-Interface "Open / Closed" Function module

### 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 AS-I 2 or AS-I 1 protocol.



### General specifications

Material housing	: Aluminium alloy
Electrical connections	: Internal terminal strip
Optional quick connector	: 4-pole M12x1 ASI 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 +80°C / -4° to +176°F
Dimensions	: See 1.603.01 for ISO 5211 (metric & UNC) See 1.603.02 for DIN 3337

### 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 ASI wiring. Four cable entries are available for this purpose.

### Features

- **Digital communication** through AS-I protocol.
- **Basic actuator functions** for fail safe (spring return) or double acting applications.
- All the control and feedback by **2-wire connection**. No need for extra power supply.
- Up to **62 devices per segment** for ASI-2 protocol
- **IPT-technology** (Intelligent Position Tracking).
- Push-button **automatic initialization** 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.
- **Readjustable 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.
- Internal control signal has **line break-, short circuit monitoring** and **fatal error indication**.

### Hazardous area executions:

#### Non-Sparking:

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

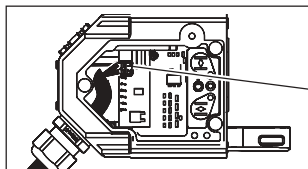
#### Non-Incendive:

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

### Communication Protocol:

Protocol	: AS-Interface
Number of devices	: 31 for ASI-1 protocol : 62 for ASI-2 protocol
Current Standby	: 22mA
Maximum	: 130mA
Protection	: 250mA from AS-Interface, by an internal automatic, resettable fuse.

### AS-Interface terminal wiring connections:



Terminal	Description	
1	Brown +	AS-I signal
2	Blue -	

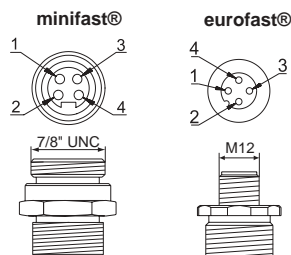
For for wiring in hazardous areas see C0240-10.

### Wiring dimensions

Cable range : 0.14 - 1.5mm<sup>2</sup> or 28-16 AWG

### Quick connector pinouts: (male chassis part)

Nr	Color
1 = ASI +	Brown
2 = NC	
3 = ASI -	Blue
4 = NC	



### Programing notes:

Address	00
IO code	6
ID code	A
EID1	7
EID2	E
Parameter	00

### Databits

D0	: Input I1/ Spare
D1	: Input I2/ Output O1
D2	: Spare / Spare
D3	: Spare / Spare

### Functions

- DO1 : Control of actuator\*
  - DI0 : Feedback closed position\*
  - DI1 : Feedback open position\*
- (\* 0 = nonactive 1 = active)

### Options

- "Turn" button for pneumatic manual control.
- Some master devices have problems when assigning address number 1 to a AS-I 2 compatible device. A special configured ASI-1 module is available to solve this problem.