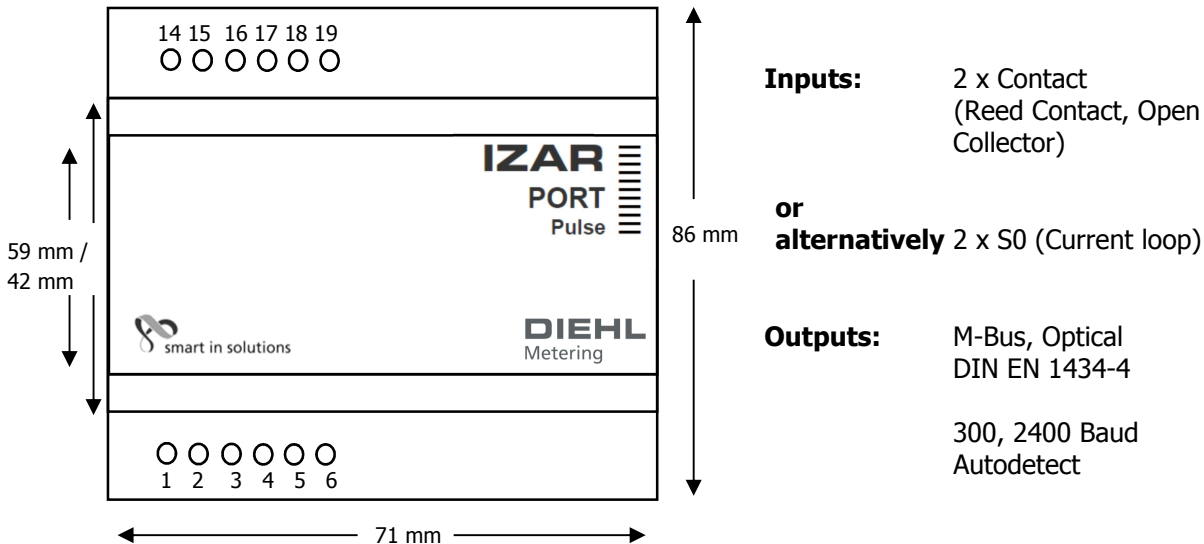


## IZAR PORT PULSE Pulse to M-Bus Converter

### Installation



**Note:** The IZAR PORT PULSE device may only be installed and operated by trained personnel.

### Mounting and dismounting

IZAR PORT PULSE is prepared for mounting on a standard rail mount.

**Mounting:** Clamp the IZAR PORT PULSE device on the rail mount. The black hook at the bottom of the device should snap in firmly.

**Dismounting:** Use a screwdriver to pull the black hook down. The IZAR PORT PULSE device will snap off the rail mount and you can take it off.

### Electrical Connections

**Note:**

- Use correct polarity for connecting S0 current loop inputs (Z1+, Z1-, Z2+, Z2-).
- The M-Bus input (M-Bus) and the contact inputs (only Reed contacts) (P1+, P1-, P2+, P2-) are polarity independent.
- Use correct polarity for connecting open collector transistors to the contact inputs.
- Only connect voltage-free contacts to the contact inputs (P1+, P1-, P2+, P2-), e.g. Reed contacts or open collector transistors.

Number		Description
1	U+	+ 24 V AC / DC Power Supply for S0 Inputs
2	U-	- 24 V AC / DC Power Supply for S0 Inputs
3	Z1+	S0 (Current Loop 20 mA) Pulse Input 1 +
4	Z1-	S0 (Current Loop 20 mA) Pulse Input 1 -
5	Z2+	S0 (Current Loop 20 mA) Pulse Input 2 +
6	Z2-	S0 (Current Loop 20 mA) Pulse Input 2 -
14	P1+	Contact Input 1 +
15	P1-	Contact Input 1 -
16	P2+	Contact Input 2 +
17	P2-	Contact Input 2 -
18	M-Bus	M-Bus Input
19	M-Bus	M-Bus Input

**Note:**

- The IZAR PORT PULSE device has got two communication interfaces: M-Bus and optical (ZVEI).

**For communication using the optical interface it is mandatory to connect the M-Bus** since the IZAR PORT gets its power supply out of the M-Bus interface.

- The IZAR PORT PULSE device has got a backup battery which ensures pulse accumulation even if the M-Bus power supply fails. The maximum possible time without M-Bus power supply depends on the pulse frequency and ranges from 3 months (pulse frequency > 50 Hz) to more than 5 years (pulse frequ. = 0 Hz).

**During operation time the IZAR PORT PULSE device must always be connected to the M-Bus.**

- The inputs P1 and Z2 as well as P2 and Z1 are using one internal channel of the IZAR PORT PULSE, respectively. Therefore, only the following combination of inputs may be used simultaneously:

<P1 and P2>, <Z1 and Z2>, <P1 and Z1>, <P2 and Z2>. As soon as one S0 current loop input is used an external 24 V DC / AC power supply must be connected.

- The IZAR PORT PULSE device counts pulses by connecting the contact inputs with a minimum pulse width of 7,5 ms (= maximum pulse frequency ca. 50 Hz).

### Customer support

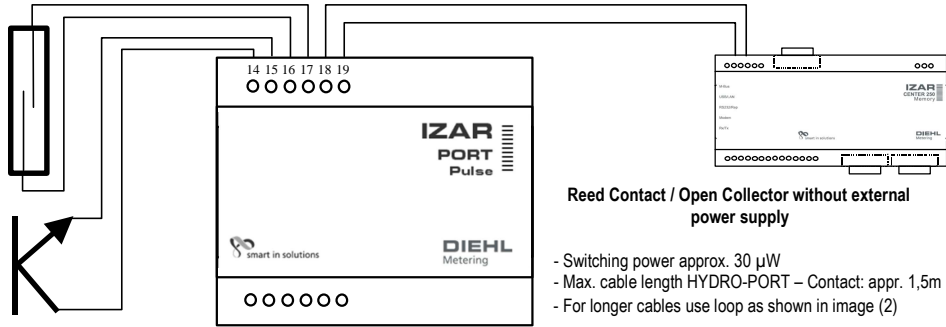
**Support:**

Diehl Metering GmbH  
Industriestraße 13  
91522 Ansbach  
Germany

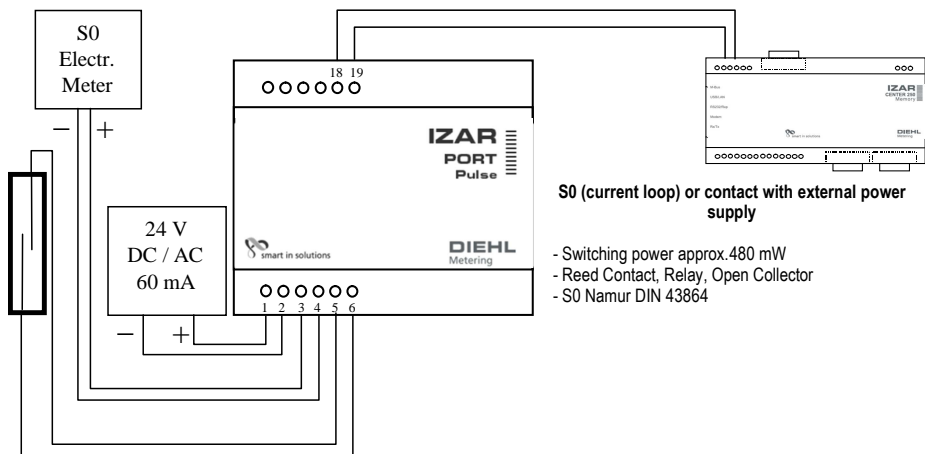
Phone: +49 981 1806 0  
Fax: +49 981 1806 605  
Email: info-dmde@diehl.com  
Internet: www.diehl.com/metering

### Configuration Examples

1)



2)



3)

