



IN+	1	IN	5	OUT+
GND 1	2		6	GND 2
N.C.	3		7	N.C.
N.C.	4		8	N.C.

Short description:

The 1-channel passive isolator filters and electrically isolates 0(4)–20 mA analog standard signals, while drawing power for signal transmission from the input circuit. The connected sensor supplies the passive isolator with the required power, while powering the connected load.

Characteristics:

- No additional supply voltage required
- Safe 3-way isolation with 2.5kV test voltage to EN 61140

Technical Data**Input:**

Input signal	0(4) ... 20 mA
Response current	< 200 µA
Voltage drop input	< 2.0 V at 20 mA (output)
Max. input voltage	< 20 V
Max. input signal	40mA

Output:

Output signal	0(4) ... 20 mA
Load impedance	≤ 600 Ω
	(Temperature range restrictions may occur)

General specifications:

Max. operating frequency	100 Hz
Response time ($T_{10,90}$)	< 3.5 ms
Transmission error	≤ 0.1 % of the full scale value
Load error	≤ 0.05 % of upper range value
	per 100 Ω load
Temperature coefficient	≤ 0.01 % /K

Description**Item No.****Pack. Unit****JUMPFLEX® transducers, for DIN 35 rail****857-451****1**

Passive isolator, 1 channel

Technical Data**Environmental requirements:**

Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C

Connection and type of mounting:

Wire connection	CAGE CLAMP® S
Cross sections	solid:
	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
	fine-stranded:
	0.34 mm² ... 2.5 mm² / AWG 22 ... 14
Strip lengths	9 ... 10 mm / 0.37 in

Dimensions and weight:

Dimensions (mm) W x H x L	6 x 96 x 94
	Height from upper-edge of DIN 35 rail
Weight	33.8 g

Standards and approvals:

Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
Shipbuilding	CS

Accessories

see pages 268 ... 271