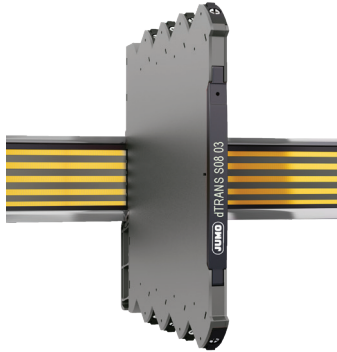


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JUMO dTRANS S08 03 Signal isolator (mA)

707203

- Isolation and 1:1 conversion of standard current signals
- Slimline housing of 6 mm
- Response time < 7 ms
- Low cost
- Simple - no setup needed



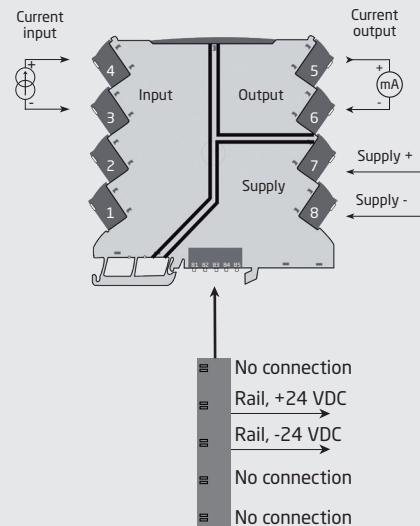
Application

- Isolation and 1:1 conversion of standard current signals.
- Galvanic separation of analog current signals.
- Elimination of ground loops and measurement of floating signals.
- A competitive choice in terms of both price and technology for galvanic isolation of current signals to SCADA systems or PLC equipment.
- Installation in ATEX Ex zone 2 / IECEx Zone 2.
- Suitable for environments with high vibration stress, e.g. ships.

Technical characteristics

- The input is protected against overvoltage and polarity error.
- Factory-calibrated measurement ranges.
- Inputs and outputs are floating and galvanically separated.

Applications



*Safe Area or
Zone 2 & Cl. 1, Div. 2, gr. A-D*

Order

Type	Product name	Description	Part no./TN (order code)
707203	JUMO dTRANS S08 03	Signal isolator (mA)	00697481

Environmental Conditions

Operating temperature	-25°C to +70°C
Storage temperature	-40°C to +85°C
Calibration temperature	20...28°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20
Installation in	Pollution degree 2 & measurement / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD)	113 x 6.1 x 115 mm
Weight approx	70 g
DIN rail type	DIN EN 60715/35 mm
Wire size	0.13 x 2.5 mm ² / AWG 26...12 stranded wire
Screw terminal torque	0.5 Nm
Vibration	IEC 60068-2-6
2...25 Hz	±1.6 mm
25...100 Hz	±4 g

Common specifications

Supply

Supply voltage	16.8...31.2 VDC
Max. required power	0.80 W
Internal power dissipation	0.4 W (typ.) / 0.65 W (max.)

Isolation voltage

Isolation voltage, test / working	2.5 kVAC / 300 VAC (reinforced)
Zone 2 / Div. 2	250 VAC

Response time

Response time (0...90%, 100...10%)	< 7 ms
Signal / noise ratio	> 60 dB
Cut-off frequency (3 dB)	> 100 Hz
Accuracy	Better than 0.05%
Temperature coefficient	< ±0.01% of span / °C
EMC immunity influence	< ±0.5% of span
Extended EMC immunity: NAMUR NE21, A criterion, burst	< ±1% of span

Input specifications

Current input

Measurement range	0...23 mA
Input voltage drop	< 1.5 VDC

Output specifications

Current output

Signal range	0...23 mA
Load (@ current output)	≤ 600 Ω
Load stability	≤ 0.002% of span / 100 Ω
Current limit	≤ 28 mA
of span	= 0...20 mA

I.S. / Ex marking

ATEX	II 3 G Ex nA IIC T4 Gc
IECEx	Ex nA IIC T4 Gc

Observed authority requirements

EMC	2014/30/EU
LVD	2014/35/EU
RoHS	2011/65/EU

Approvals

ATEX 2014/34/EU	DEKRA 18ATEX0007 X
IECEx	DEK 18.0006 X
UL	E201387
DNV-GL Marine	DNVGL-CG-0339