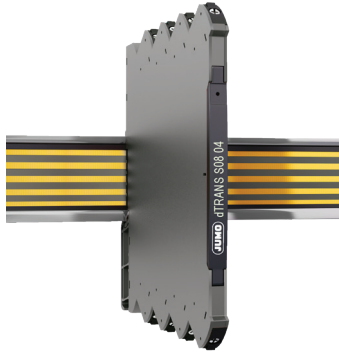


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## JUMO dTRANS S08 04 Signal converter (V, mA)/supply isolator

### 707204

- Isolation and conversion of standard DC signals
- Slimline housing of 6 mm
- Power supply and signal isolator for 2-wire transmitter
- Loop supply >17 V
- DIP-switch configured



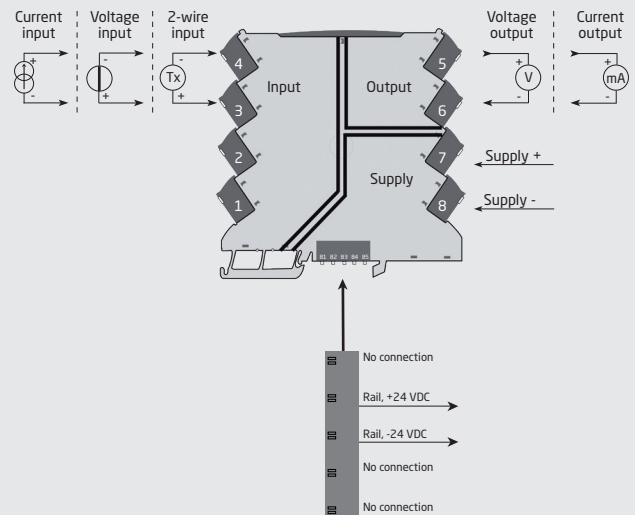
#### Application

- Isolation and conversion of standard DC signals.
- Galvanic separation of analog current and voltage 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 and voltage 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

- Easy configuration via DIP-switches.
- 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)
707204	JUMO dTRANS S08 04	Signal converter (V, mA)/ supply isolator	00697482

## 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 <sup>2</sup> / AWG 26...12 stranded wire
Screw terminal torque .....	0.5 Nm
2...25 Hz .....	±1.6 mm
25...100 Hz .....	±4 g

## Common specifications

### Supply

Supply voltage .....	16.8...31.2 VDC
Max. required power .....	1.20 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
Programming .....	DIP-switches
Signal / noise ratio .....	> 60 dB
Cut-off frequency (3 dB) .....	> 100 Hz
Accuracy .....	Better than 0.05% of selected range
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
Programmable measurement ranges .....	0...20 and 4...20 mA
Input voltage drop .....	< 1.5 VDC

### Voltage input

Measurement range .....	0...10.25 V
Measurement range .....	0...11.5 V / 0...5.75 V
Programmable measurement ranges .....	0/1...5 and 0/2...10 V
Input resistance .....	≥ 500 kΩ
2-wire transmitter supply .....	> 17 V / 20 mA

## Output specifications

### Current output

Signal range .....	0...23 mA
Programmable signal ranges .....	0 / 4...20 mA
Load (@ current output) .....	≤ 600 Ω
Load stability .....	≤ 0.002% of span / 100 Ω
Current limit .....	≤ 28 mA

### Voltage output

Signal range .....	0...10 VDC
Programmable signal ranges .....	0/1...5 and 0/2...10 V
Load (@ voltage output) .....	≥ 10 kΩ

of span .....

= of the DIP-switch selected  
output range

## 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
DNV-GL Marine .....	DNVGL-CG-0339
UL .....	E201387