

Order

| |
|------|
| Type |
| 2281 |

Electrical specifications

Environmental conditions

| | |
|----------------------------------|----------------------|
| Operating temperature | -20°C to +60°C |
| Calibration temperature. | 20...28°C |
| Humidity. | < 95% RH (non-cond.) |
| Protection degree | IP50 |

Mechanical specifications

| | |
|------------------------------|---|
| Dimensions (HxWxD) | 80.5 x 35.5 x 84.5 mm (D is without pins) |
| Weight approx. | 120 g |

Common specifications

| | |
|---|----------------------|
| Supply voltage | 19.2...28.8 VDC |
| Internal consumption | 2.4 W |
| Max. consumption | 2.7 W |
| Programming | Front-programmable |
| Response time | < 60 ms |
| Signal / noise ratio | Min. 60 dB |
| Up ramp time | 0.1...999999 s |
| Down ramp time | 0.1...999999 s |
| External pulses. | 1...15,615,744 |
| Signal dynamics, output | 16 bit |
| Effect of supply voltage change | < ±0.005% of span/%V |
| Temperature coefficient. | < ±0.01% of span/°C |
| Linearity error | < ±0.1% of span |
| EMC immunity influence | < ±0.5% |

Electrical specifications - INPUT

Digital input

Up / down inputs

| | |
|-------------------------------------|--------------------------|
| NPN | Pull up 24 VDC / 6.9 mA |
| PNP. | Pull down 0 VDC / 6.9 mA |
| Pulse width, programmable | >10 ms / > 0.5 ms |
| Input frequency (max.) | 50 Hz / 1 kHz |

Reset inputs

| | |
|----------------------------------|--------------------------|
| NPN | Pull up 24 VDC / 6.9 mA |
| PNP. | Pull down 0 VDC / 6.9 mA |
| Pulse width | > 30 ms |
| Input frequency (max.) | 16 Hz |

Electrical specifications - output

Current output:

| | |
|-----------------------------------|----------------------------|
| Signal range. | 0...20 mA |
| Min. signal range (span). | 5 mA |
| Max. offset | 50% of selected max. value |
| Load (max.) | 20 mA / 600 Ω / 12 VDC |
| Load stability | < ±0.01% of span/100 Ω |
| Current limit. | 20.5 mA |

Of span = Of the presently selected range

Voltage input via an internal shunt

| | |
|-----------------------------------|----------------------------|
| Signal range. | 0...10 VDC |
| Min. signal range (span). | 250 mV |
| Max. offset | 50% of selected max. value |
| Load (min.) | 500 kΩ |
| Voltage limit | 10.25 VDC |

Observed authority requirements

| | |
|---------------|------------------------------|
| EMC. | 2014/30/EU & UK SI 2016/1091 |
| RoHS. | 2011/65/EU & UK SI 2012/3032 |
| EAC. | TR-CU 020/2011 |

Block diagram

