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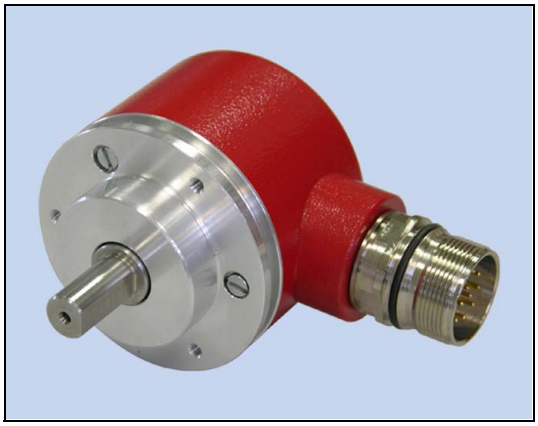
Incremental-Encoder IEV58S-INC



- **Interface Incremental push-pull or line driver**
- **Solid shaft**
- **Short delivery time *ex warehouse***
- **Incremental output parameterizable**
- **Extensive parametrize possible**
- **Customisations upon request**

Characteristics

Resolution total [1] ..... ≤ 8.192

Supply voltage [3] ..... 11 … 28 VDC or 5 VDC ± 5 %
Power consumption without load ..... < 1,3 Watt

Data interface incremental programmable INC
Output [3] ..... Push-Pull
- Maximum current ..... ≤ 30 mA
- Maximum output frequency ..... 200 kHz ±15°
- Power supply ..... 11 … 28 VDC

Output [3] ..... Line Driver
- Maximum current ..... ≤ 50 mA
- Maximum output frequency ..... 200 kHz ±15°
- Power supply [3] ..... 5 VDC or 11 … 28 VDC

Incremental signal ..... K1, K1 neg., K2, K2 neg
Zero pulse ..... K0, K0 neg., 1 … 1+n pulse per revolution

Inputs Logic level„0“ < 2 VDC, „1“ ≙ power supply
Preset 1 [1] ..... Adjust absolute position to a given set value i.e. zero set

Functions
- Counts of zero pulse [1] ..... integer multiples of the total resolution
- Length of zero pulse [1] ..... of to 1/4…16/4 periods
- Preset [1] ..... disabled or enabled
- Total resolution [1] ..... in steps to 2 … 1.024, 2.048, 4.096, 8.192 pulses

Mechanically permitted speed ..... ≤ 12.000 min^{-1}
Shaft loading ..... ≤ 10N axial, 20 N radial
Shaft version available ..... Different shafts and flanges available
Bearing life time at ≤ 6.000 min^{-1} and ≤ 60 °C ..... ≥ $3{,}9 * 10^{10}$ revolutions
Angular acceleration ..... ≥ 10^4 rad/s²
Moment of inertia ..... typical $2{,}5 * 10^{-6}$ kg∗m ²
Startup torque at 20°C or 68°F ..... typical 2 Ncm
Weight ..... typical 0,5 kg
Connection ..... Round connector or cable gland radial

[1] Parameter setting via RS 485 interface with “TRWinProg”

[3] Factory-aligned

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Environmental conditions

Vibration to DIN EN 60068-2-6:1996 ..... ≤ 100 m/s² sine 50-2000 Hz
Shock to DIN EN 60068-2-27:1995 ..... ≤ 1000 m/s² (100g) 11ms

EMC

Unloading of static electricity to DIN EN 61000-4-2:2001
Burst to DIN EN 61000-4-4:2004
Interference immunity to DIN EN 61000-6-2:2001

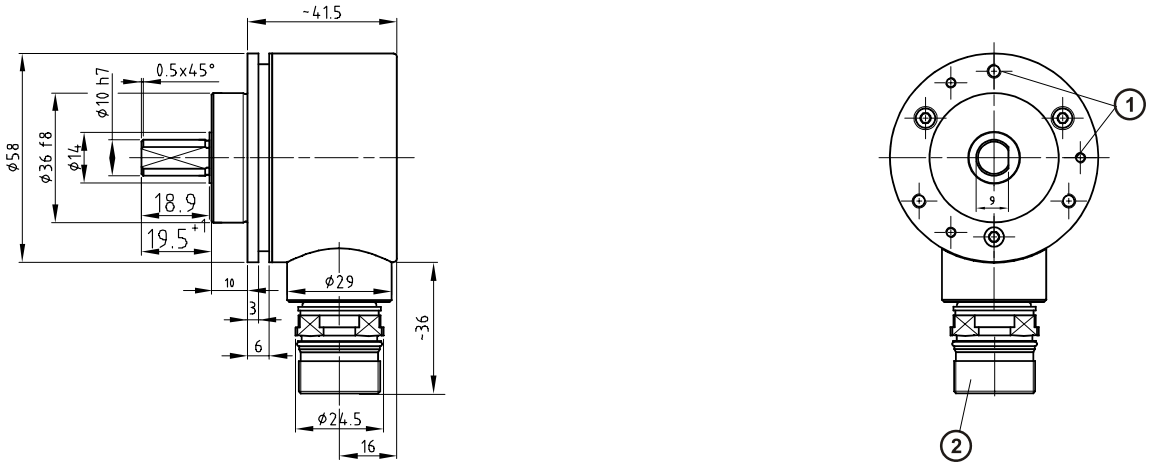
Operating temperature ..... 0 °C … 60 °C optional -20 °C …+70 °C
Storage temperature range ..... -30 °C … +80 °C dry

Relative humidity to DIN EN 60068-3-4:2002 ..... 98 % non condensing

Protection class [1] ..... IP 65 compliant EN 60529:1991

[1] This is valid, if the plug connectors are connected correctly and/or the cable gland is screwed together correctly

Dimension drawing



1 See product drawing

2 Data interface