

Special Encoders & Sensors

Contact encoder, surface mount housing

Impulse ratio 1 rev. = 15 impulses up to 5 rev. = 1 impulse

G 080



G 080 surface mount housing

Features

- Encoder with mechanical contact
- As trigger for electromechanical counters
- Impulse voltage 12...230 VAC/VDC
- Surface mount housing (for measuring wheel)
- Ratio up to one revolution = 15 impulses
- Reduction ratio up to 5 revolutions = 1 impulse
- High switching capacity
- Sturdy design

Technical data - electrical ratings

| | |
|-------------------------|--|
| Voltage supply | 12...220 V |
| Resolution (steps/turn) | 0.2...15 |
| Operating mode | Pulse emission in both rotational directions |
| Contact load | ≤30 W (100 VA) ≤230 V (approx. 2 A) |
| Sensing method | Mechanic |
| Output frequency | ≤0.025 kHz |
| Output signals | Contact |

Technical data - mechanical design

| | |
|-------------------------|-------------------------------------|
| Housing | ø73 mm |
| Shaft | ø7 mm (sinter bronze slide bearing) |
| Protection DIN EN 60529 | IP 52 |
| Operating speed | ≤1500 rpm |
| Starting torque | ≤0.02 Nm IP 30 |
| Material | Housing: GFV Polycarbonat |
| Operating temperature | -10...+60 °C |
| Relative humidity | 95 % non-condensing |
| Weight approx. | 250 g |
| E-connection | Cable |

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Part number

G 080.0

| | <u>Pulse per rotation</u> |
|--------|---|
| 10A101 | 1 rev. = 1 impulse contact cams impulse/interval 1:1 |
| 10A202 | 1 rev. = 2 impulses contact cams of several parts |
| 10A205 | 1 rev. = 5 impulses contact cams of several parts |
| 20A110 | 2 rev. = 1 impulse contact cams impulse/interval 1:1 |
| 20A113 | 5 rev. = 1 impulse contact cams impulse/interval 1:1 |

Supplied with PG9 gland and 0.3 m cable 2 x 1 mm.

G 080 is a mechanically-operated encoder providing a surface mount housing. Mechanical rotary movements are converted into impulses by interrupted contact resulting in the existing circuit opening or closing. Impulse ratios are available within the range of 1 turn = 15 impulses up to max. 32 turns.

Dimensions

