

## Incremental-Encoder IH 76 (Type 0500)

TR-VCE-TI-GB-0620  
04/12 Revision 02  
010101-00769999-9999



- + Incremental interface
- + Type with blind shaft (Ø 6 ... 16 mm)
- + Number of pulses per revolution up to 10 000

### Characteristics

Supply Voltage .....	11 - 27 V DC
5 V DC .....	Upon Request
Output (11-27 V) .....	Push-Pull
- Maximum Current .....	max. 20 mA
- Incremental Signal .....	A, A neg., B, B neg.
- Marker Pulse .....	Z, Z neg., 1 pulse per revolution
- Maximum Output Frequency .....	160 kHz
Output (5 V) .....	Line Driver
- Maximum Current .....	max. 20 mA
- Incremental Signal .....	A, A neg., B; B neg.
- Marker Pulse .....	Z, Z neg., 1 pulse per revolution
- Maximum Output Frequency .....	300 kHz
Tolerance (at 20 kHz)	
- Phase Shift .....	± 10°
- Pulse Width .....	± 10°
Tolerance (at 100 kHz)	
- Phase Shift .....	± 30°
- Pulse Width .....	± 30°
Pulses per Revolution .....	1 to 10 000
Option .....	Sinusoidal Signal, 160 kHz (-3dB), voltage or current source 5 or 10 times the base PPR is possible. (i.e. 50000 or 100000 PPR)
Maximum Rotational Speed .....	6000 RPM
Maximum Angular Acceleration .....	≤ 10 <sup>5</sup> rad/s <sup>2</sup>
Momentum of Inertia .....	60 x 10 <sup>-6</sup> kg m <sup>2</sup>
Start up Momentum 20°C (68° F) .....	approx. 0.08 Nm
Standard Connector .....	PG 9 radial cable (pigtail), different cable lengths on request
Weight .....	0.5 kg (1.1 lb.)

Subject to change

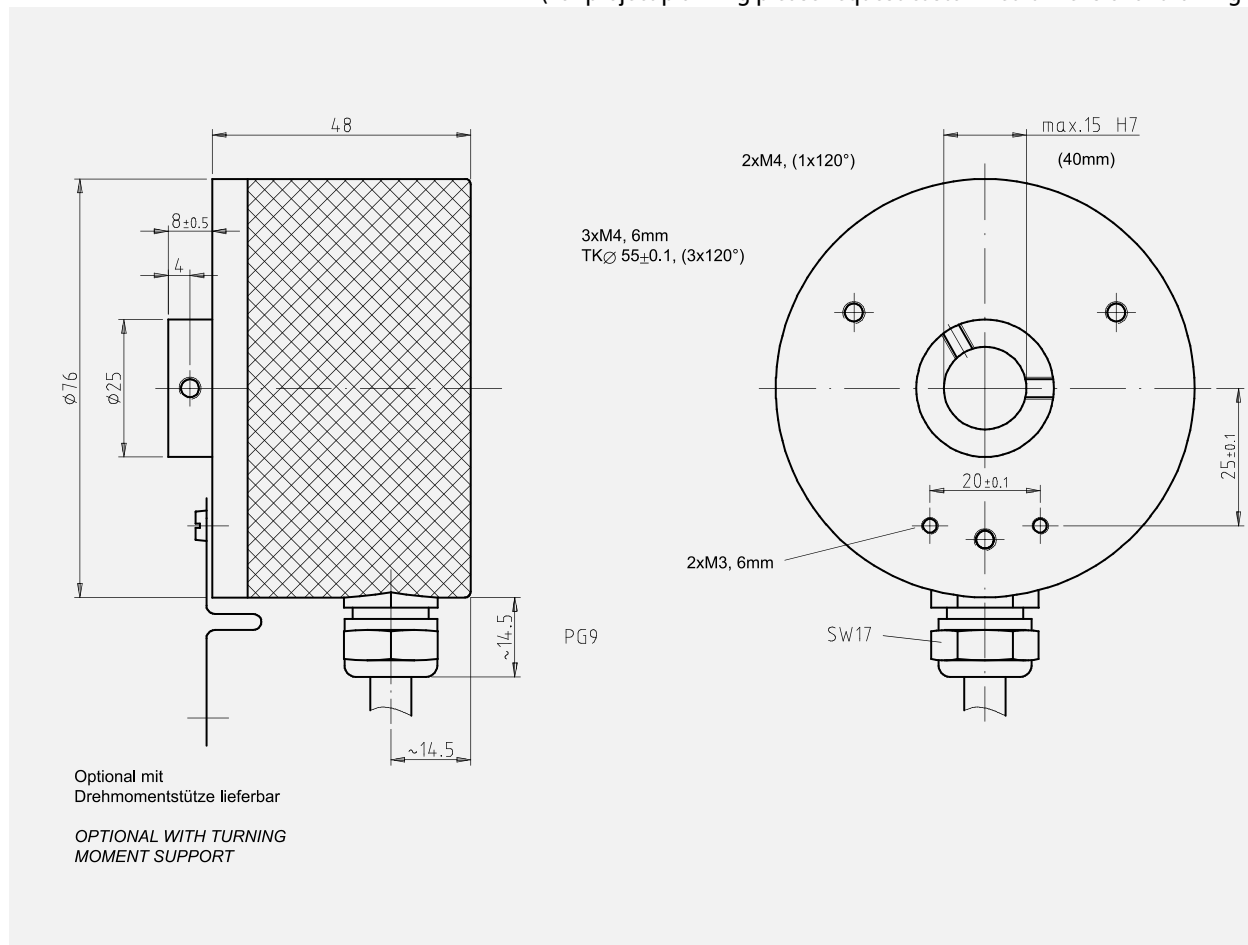
**Environmental conditions**

Vibration, DIN EN 60068-2-6: 1996 .....  $\leq 100 \text{ m/s}^2$ , sine 20-2000 Hz  
 Shock, DIN EN 60068-2-27: 1995 .....  $\leq 1000 \text{ m/s}^2$ , half-sine 11 ms  
 EMC  
 - Immunity to disturbance, DIN EN 61000-6-2: 2006  
 - Transient emissions, DIN EN 61000-6-3: 2007  
 Operating Temperature .....  $0^\circ \text{ to } 80^\circ \text{C}$  ( $32^\circ \text{ F to } 176^\circ \text{ F}$ )  
 Extended Temperature (Optional) .....  $-30^\circ \text{ to } +80^\circ \text{C}$  ( $-22^\circ \text{ to } 176^\circ \text{F}$ )  
 Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing  
 Protection class, DIN EN 60529: 1991 \*) ..... IP 64

\*) valid with screwed on mating connector and / or screwed together cable gland

**Dimension drawing**

(For project planning please request customized dimensional drawing!)



Subject to change