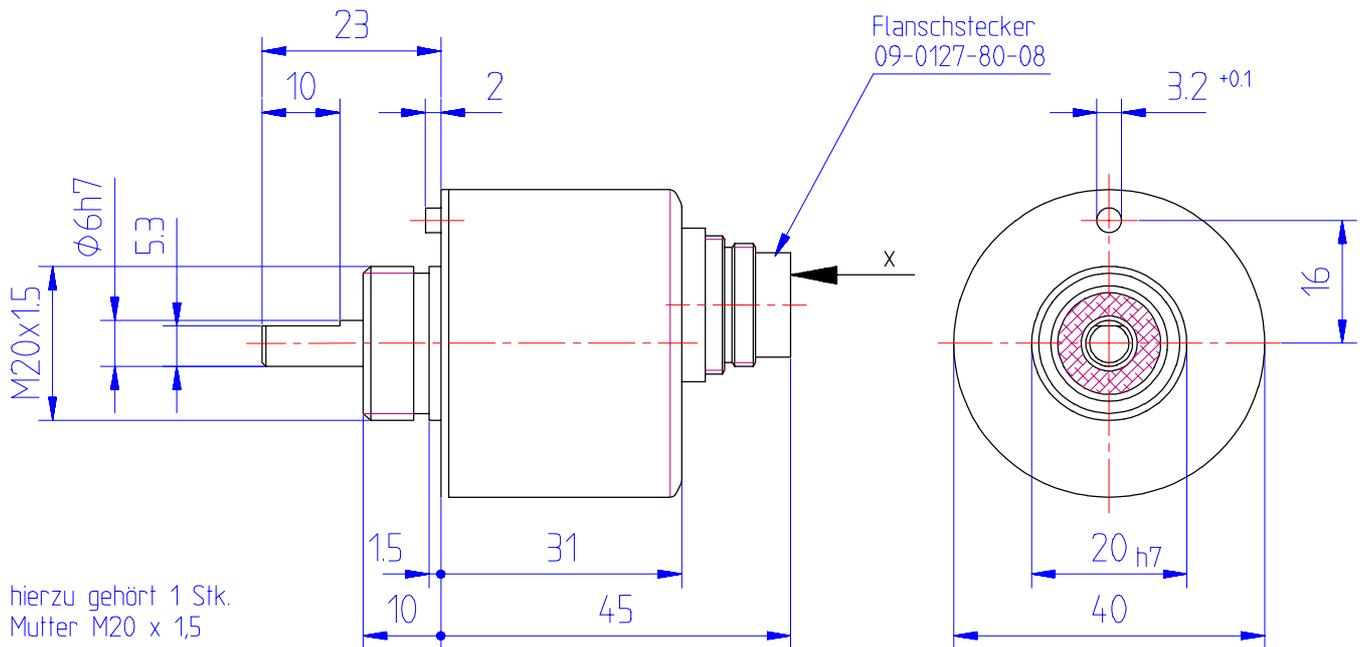


# IMG40S-1000-ABN-IT-S2



## Description

The **IMG40S** is a robust industrial incremental encoder with 40 mm diameter and a capacity of 1000 pulses.

The standard type is delivered with a 8-pole flanged plug.

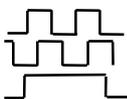
The **IMG40S** can be fixed in front by means of one M20 nut. It is particularly qualified to be used with low and medium stress and high speeds.

## Technical data

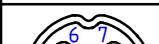
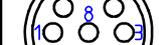
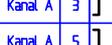
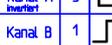
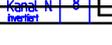
### Mechanical features

Housing:	aluminium (solid)
Bearing flange:	aluminium (solid)
Shaft:	Steel (stainless)
Diameter (outside):	40 mm
Diameter (shaft):	6 mm
Working temperature:	0 - 70 °C
Protection class:	IP54 (DIN 40 050)
mechanical speed:	max. 10000 min <sup>-1</sup>
Loading capacity of the shaft:	axial load max. 10 N radial load max. 15 N
Motor starting torque:	0,15 Ncm bei 25 °C
Vibration:	<50 m/s <sup>2</sup> (bei 10-2000 c/s)
Impact:	<50 m/s <sup>2</sup>
Weight:	85 g

### Electrical features

Operating voltage	5 volt DC
Residual ripple:	50 mVss
Current input:	≤ 100 mA (unloaded)
Output circuit:	push-pull inverted
Output load:	30 mA
Output signals:	 two square wave signals offset by 90° and one off zero impulse (any position and length) tolerance ±20° (electrical)
Max. output frequency:	50 kc/s
pulse numbers:	1000 (per revolution)

Type of connection: plug  
Connection:

Ansicht in Richtung X	Funktion	PIN	elektrische Kenndaten
	+U <sub>b</sub>	4	5 Volt DC Restwelligkeit 100mVss
	0 Volt	2	
	Kanal A	3	
	Kanal A invertiert	5	
	Kanal B	1	
	Kanal B invertiert	6	
	Kanal N	7	
	Kanal N invertiert	8	

Ausgang IT LINE DRIVER SN7514 Belastung max.30mA