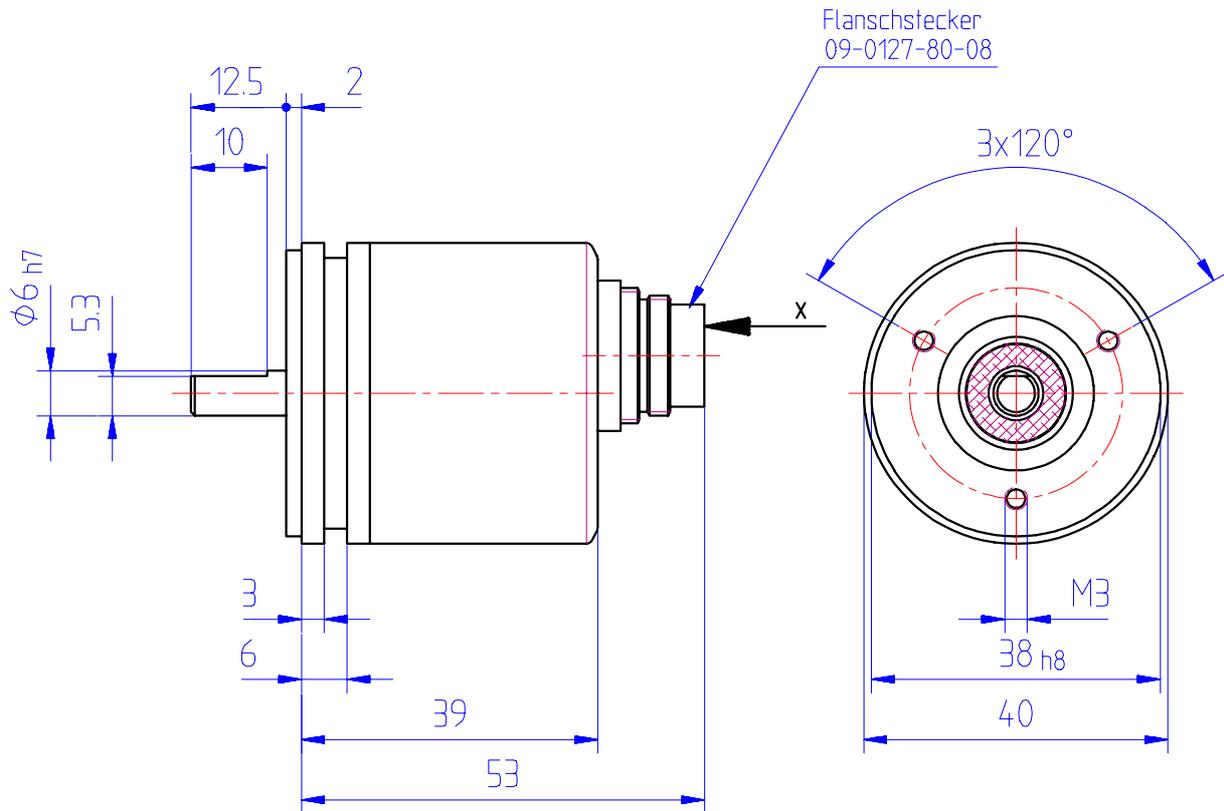


IMG40A-500-ABN-IT-S2



Description

The **IMG40A** is a robust industrial incremental encoder, 40 mm diameter, with servo-flange and a capacity of 500 pulses. The standard type is delivered with a 8-pole flanged plug. The **IMG40A** can be fixed both in front by means of three screws type M3 and on the backside by means of three clamping jaws. 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 40050)
mechanical speed:	max. 6000 min ⁻¹
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 ² (bei 10-2000 c/s)
Impact:	<50 m/s ²
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:	<p>two square wave signals offset by 90° and one off zero impulse (any position and length) tolerance ±20° (electrical)</p>																																				
Max. output frequency:	50 kc/s																																				
pulse numbers:	500 (per revolution)																																				
Type of connection:	plug																																				
Connection:	<table border="1"> <thead> <tr> <th>Ansicht in Richtung X</th> <th>Funktion</th> <th>PIN</th> <th>elektrische Kenndaten</th> </tr> </thead> <tbody> <tr> <td></td> <td>+U_b</td> <td>4</td> <td>5 Volt DC Restwelligkeit 100mVss</td> </tr> <tr> <td></td> <td>0 Volt</td> <td>2</td> <td></td> </tr> <tr> <td></td> <td>Kanal A</td> <td>3</td> <td></td> </tr> <tr> <td></td> <td>Kanal A invertiert</td> <td>5</td> <td></td> </tr> <tr> <td></td> <td>Kanal B</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>Kanal B invertiert</td> <td>6</td> <td></td> </tr> <tr> <td></td> <td>Kanal N</td> <td>7</td> <td></td> </tr> <tr> <td></td> <td>Kanal N invertiert</td> <td>8</td> <td></td> </tr> </tbody> </table>	Ansicht in Richtung X	Funktion	PIN	elektrische Kenndaten		+U _b	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	
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Ausgang IT LINE DRIVER SN7514 Belastung max.30mA