

ENCODER

Type: **IMG30B-.....-ABN-.....-S2-V3**



Description

The **IMG30B** is a strong incremental encoder with clamp-flange for the inset in the industry. The 30mm diameter and the 6mm axis of them make possible very hard wear.

The new developed optical electronics in this encoder guarantees with differential scanning the code-disk just so a high technical reliability.

Besides different pulse numbers and pulse series (up to 3 are realisable in one device) and operating voltage (10 Volt at TTL-compatibility), this **IMG30B** will deliver with 8-pole flanged plug (M16).

The **IMG30B** can be fixed in front by means of 2 x three screws type M3.

It is particularly qualified to be used with low stress and medium speeds.



Technical Data

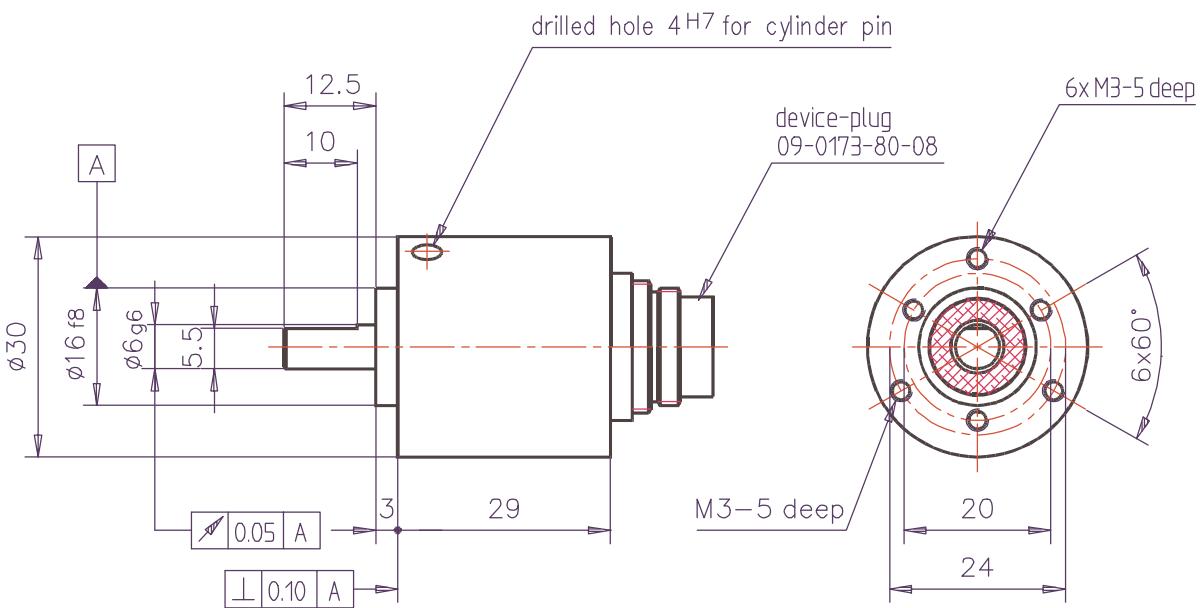
Mechanical features:	Bearing flange with housing: Aluminium solid (high-grade steel on inquiry) Shaft: Steel (stainless) Diameter housing: 30 mm Diameter flange: 30 mm Diameter shaft: 6 mm Working temperature: 0 ÷ +80 °C (-30 ÷ +110 °C on inquiry) Climate class (IEC 721-3-3): 3K3 Type B Relative moisture: ≤ 75 % on average one year max. ≤ 85 % Protection class (EN 60529): IP64 Mechanical speed: max. 8000 min ⁻¹ Loading capacity of the shaft: max. 5 N axial max. 10 N radial Starting torque: 0.15 Ncm (at 25 °C) Vibration (IEC 68-2-6): ≤ 50 m/s ² ≈ 5 g (at 10-2000 c/s) Impact (IEC 68-2-27): ≤ 50 m/s ² ≈ 5 g (during 6 ms) Masse: 52 g
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Electrical features:	Operating voltage: 5 Volt DC ±10% »IT« Residual ripple: 50 mVss Current input: ≤ 50 mA (unloaded) Output circuit: TTL; RS422 compatible Output load: 80 mA Output signals: Channel A: (With view on shaft and turn cw) Channel B: Channel N:	10 ÷ 24 Volt DC ±10 % »TI« 100 mVss ≤ 50 mA (unloaded) HTL 80 mA Impulse duration T = vibration duration T = $2\pi = 360^\circ$. 90° Phase offset from channel B to channel A. Impulse tolerance ±20°. Impulse-break-proportion 1:1.
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Function	Pin	Colour	Pin arrangement
+U _B	4	brown	
0 Volt	2	white	
Channel A	3	green	
Channel A inv.	5	yellow	
Channel B	1	grey	
Channel B inv.	6	pink	
Channel N	7	blue	
Channel N inv.	8	red	

View on pin side

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 				general tolerance DIN 7168-m	surface DIN ISO 1302 line 1	scale 1:1	weight 52g
				material			
					date	name	
				adapter	12.03.03	B. Kruse	
				check			IMG30B-____-ABN-__-S2-V3
				norm.			
				 Drehimpulsgeber GmbH 50259 Pulheim		00.7-0017054	sheet 2 2 sheets
state	change	date	Nam.	origin	in replacement's	replace by:	