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GHM4

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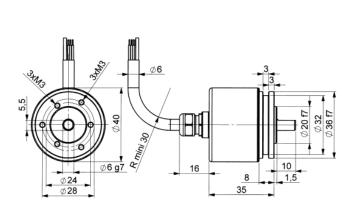
INCREMENTAL ENCODERS, GHM4 RANGE

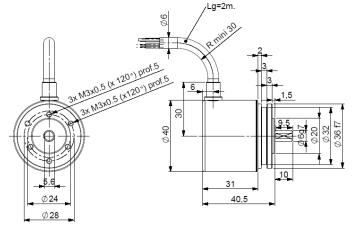
- With its 40mm size and a 6mm solid shaft, this encoder characterizes itself by its strength and robustness of the mechanical and opto-electronic components, it's the most compact truly industrial encoder with a solid shaft
- Coded discs in synthetic material are used: stable and unbreakable (Polyfass™, Mylar-Myca composite)
- Available resolution up to 2 500 counts per turn
- Universal electronics 5 to 24Vdc available
- Application fields: micro-robotics, printing machines, low power DC motors, shears...



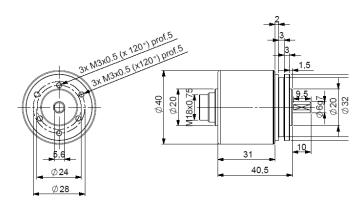
GHM4 connection G3A (axial cable)

GHM4 connection G3R (radial cable)





GHM4 connection G2A / GDA (axial DIN)



CHARACTERISTICS

	Shaft: stainless steel			
Material	Cover: aluminium			
	Body: aluminium			
Bearings	688 serie			
Maximum loads	Axial: 10 N			
waximum loads	Radial : 20 N			
Shaft inertia	≤ 0,2.10 ⁻⁶ kg.m ²			
Torque	≤ 2.10 ⁻³ N.m			
Permissible max. speed	12 000 min ⁻¹			
Continuous max. speed	9 000 min ⁻¹			
Encoder weight (approx.)	0,190 kg			

EMC	EN 50082-2 (1995)				
EMC	EN 50081-1 (1992)				
Isolation	1 000 Veff				
Operating temperature	- 20 + 80 °C (encoder T°)				
Storage temperature	- 40 + 80 °C				
Protection CEI60529 (1989)	IP 54				
Shocks (EN60068-2-27)	≤ 300 m.s ⁻² (during 11 ms)				
Vibrations (EN60068-2-6)	≤ 100 m.s ⁻² (10 500 Hz)				
Theoretical mechanical lifetime 10° turns (F _{axial} / F _{radial})					
5 N / 10 N	263				
10 N / 20 N	33				



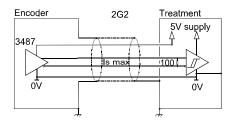
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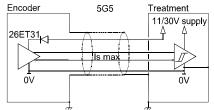


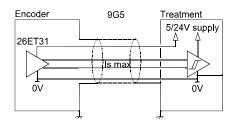
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INCREMENTAL ENCODERS, GHM4 RANGE

OUTPUT ELECTRONIC / POWER SUPPLY







2G2 electronic (100kHz)

Supply: $5Vdc \pm 10\%$ Cons. without load: 100mA max Current per channel: 40mA max 0 max (ls=20mA): $V_{ol}=0.5Vdc$ 1 min (ls=20mA): $V_{oh}=2.5Vdc$

5G5 electronic (100kHz)

Supply: 11 to 30Vdc Cons. without load: 75mA max Current per channel: 40mA max 0 max (ls=20mA): V_{ol} = 0,5Vdc 1min (ls=20mA): V_{oh} = Vcc-3Vdc

9G5 electronic(100kHz)

Supply : 5 to 24Vdc Cons. without load : 75mA max Current per channel : 40mA max 0 max (ls=20mA) : V_{ol} = 0,5Vdc 1min (ls=20mA) : V_{oh} = Vcc-3Vdc

Protection against short circuits of the electronics : 5G5 and 9G5 Protection against inversion of polarity for the electronics : 5G5

STANDARD CONNECTION

		-	+	А	В	0	A/	B/	0/	Ground
G3	PVC cable, 8 wires 8230/020	WH white	BN brown	GN green	YE yellow	GY grey	PK pink	BU blue	RD red	Blindage général
GD	DIN Connector 8 pinouts	1	2	3	4	5	6	7	8	Embase connectique
G2	DIN connector 5 pinouts	1	2	3	4	5	/	/	/	Embase connectique

ORDERING REFERENCE (Contact the factory for special versions, ex: special flanges, electronics, connections...)

	Shaft Ø	Available	electronics	Output signals	Resolution	Connection	Connection orientation
GHM4	06 : 6mm L6: 6mm 16mm length (option)	2G2, 5	G5, 9G5	9 :A,A/,B,B/,0,0/ (0 gated A & B)	2 500 max	GD: DIN 8pins G2: DIN 5pins	A: axial
		Supply 2:5Vdc 5:11 to 30Vdc 9:5 to 24Vdc	Output stage G2: 5Vdc RS422 G5: push-pull	A:A,A/,B,B/,0,0/ (0 gated A) N:A,A/,B,B/,0,0/ (0 ungated)		G3: PVC cable 8 wires	Example : R020: radial cable 2m A020: axial cable 2m
Ex:GHM4	06 //	5	G5	9 //	2 500//	G3	R020

Available resolutions: 1 2 4 5 6 10 15 16 20 24 25 27 30 35 36 40 50 60 64 75 80 90 96 100 120 125 127 128 150 160 180 200 250 256 300 360 384 400 480 500 512 517 600 720 750 800 1000 1024 2500

Made in FRANCE