

GHM3

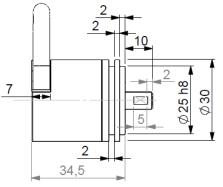
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# OPTICAL INCREMENTAL ENCODERS, GHM3 RANGE

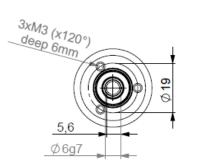
- With its 30mm size and a 6mm solid shaft, this encoder characterizes itself by its strong robustness of the mechanical and optical parts, it's the most compact really industrial encoder with a solid shaft
- High accuracy optical technology
- Available resolution up to 1024 pulses per revolution
- Universal electronics 5 to 30Vdc available
- Application fields : agriculture, construction, forestry vehicles...

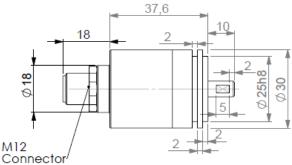


# lenght 2m $3xM3 (x 120^{\circ})$ deep 6mm $\phi 6g7$ 5,6 5,6 234,5



GHM3 connection GMA (axial M12 8 pinouts)





## MECHANICAL CHARACTERISTICS

	Shaft: stainless steel	Isolation	1 000 Veff			
Material	Cover: aluminium	EMC	EN 50082-2 (1995)			
	Body: aluminium	EIVIC	EN 50081-1 (1992)			
Maximal loads	Axial : 10 N	Operating temperature	- 20 + 80 °C (encoder T°)			
Maximarioaus	Radial : 20 N	Storage temperature	- 40 + 80 °C			
Shaft inertia	≤ 0,2.10 <sup>-6</sup> kg.m <sup>2</sup>	Protection CEI60529 (1989)	IP 65			
Torque	≤ 4.10 <sup>-3</sup> N.m	Shocks (EN60068-2-27)	$\leq$ 300 m.s <sup>-2</sup> (during 11 ms)			
Permissible max. speed	6 000 min <sup>-1</sup>	Vibrations (EN60068-2-6)	≤ 100 m.s <sup>-2</sup> (10 … 500 Hz)			
Continuous max. speed	4 500 min <sup>-1</sup>	Theoretical mechanical lifetime 10 <sup>9</sup> turns (F <sub>axial</sub> / F <sub>radial</sub> )				
Encoder weight (approx.)	0,150 kg	5 N / 10 N : 263	10 N / 20 N : 33			

## GHM3 connection G3D ("diagonal" output")

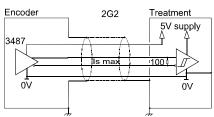


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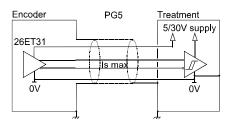
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## **OPTICAL INCREMENTAL ENCODERS, GHM3 RANGE**

**OUTPUT ELECTRONIC / POWER SUPPLY** 



2G2 electronic (100kHz) Supply : 5Vdc ± 10% Cons. without load : 100mA max Current per channel : 40mA max 0 max (ls=20mA) : Vol = 0,5Vdc 1 min (ls=20mA) : Voh = 2,5Vdc



PG5 electronic(100kHz) Supply : 5 to 30Vdc Cons. without load : 75mA max Current per channel : 40mA max 0 max (ls=20mA) : Vol = 0,5Vdc 1min (ls=20mA) : Voh = Vcc-3Vdc

Protection against short circuits and inversion of polarity for the electronic PG5

## STANDARD CONNECTION

		-	+	A	В	0	A/	B/	0/	Ground
G3	PVC cable, 8 wires	WH white	BN brown	GN green	YE yellow	GY grey	PK pink	BU blue	RD red	Main shield
GM	M12 connector 8 pinouts	1	2	3	4	5	6	7	8	Connector body

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

	Shaft Ø Available electronics				Resolution	Connection	Connection orientation
GHM3		2G2, PG5				<b>GM</b> : M12 8 pinouts	A : axial
		Supply	Output stage	ο.		o piñodio	
	<b>06</b> : 6mm	2 : 5Vdc P : 5 to 30Vdc	<b>G2</b> : 5Vdc TTL / RS422 <b>G5</b> : push- Pull	<b>9</b> : A, A/, B, B/, 0, 0/	<b>1024</b> max	<b>G3</b> : PVC cable 8 wires	Example : <b>D020</b> : diagonal 2m
Ex: GHM3_	06 //	Р	G5	9 //	00250//	G3	D020

Available resolutions : 1000, 500, 360, 300, 256, 200, 125, 100, 60 (other available on request)

## Made in FRANCE

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