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HHM3

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MAGNETIC INCREMENTAL ENCODERS, HHM3 RANGE

- With its 30mm size and a 6mm solid shaft, HHM3 encoder characterizes itself by its strong robustness of the mechanical and electro-magnetic parts, it's the most compact really industrial encoder with a solid shaft.
- Application fields : agriculture, construction, forestry vehicles, medical applications, solar panels...
- Magnetic technology, contactless.
- Available resolution up to 1024 pulses per revolution.
- Universal supply 5 to 30Vdc available.
- Available in option : Extended temperature range (up to 40..+125°C), IP67/IP69K...

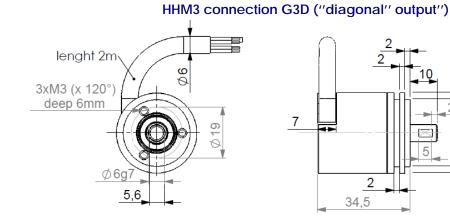


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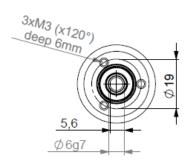
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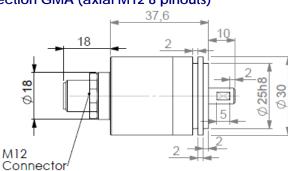
Ø **30**





HHM3 connection GMA (axial M12 8 pinouts)





MECHANICAL CHARACTERISTICS

	Shaft: stainless steel	Isolation	500Veff	
Material	Cover: aluminium	FMC	EN 61000-6-4	
	Body: aluminium	EMC	EN 61000-6-2	
Bearings	696 series	Operating temperature	- 40 + 100 °C (at 5Vdc)	
	Axial : 20 N	Storage temperature	- 40 + 100 °C	
Maximal loads	Radial : 50 N	Protection	IP 65	
Shaft inertia	$\leq 0, 1.10^{-6} \text{ kg}.\text{m}^2$	Shocks (EN60068-2-27)	≤ 2000m.s ⁻² (during 6 ms)	
Torque	≤ 1.10 ⁻³ N.m	Vibrations (EN60068-2-6)	≤ 200m.s ⁻² (55 2 000 Hz)	
Nominal max. speed	6 000 min ⁻¹	Theoretical mechanical lifetime 10º turns (F _{axial} / F _{radial})		
Encoder weight (approx.)	0,150 kg	20 N / 50 N	15	



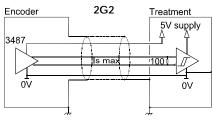


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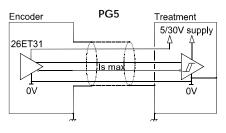
MAGNETIC INCREMENTAL ENCODERS, HHM3 RANGE

CE

OUTPUT ELECTRONIC / POWER SUPPLY



 $\begin{array}{c} \textbf{2G2 electronic (100kHz)}\\ Supply: 5Vdc \pm 10\%\\ Cons. without load : 40mA max\\ Current per channel : 40mA max\\ 0 max (ls=20mA) : V_{ol} = 0,5Vdc\\ 1 min (ls=20mA) : V_{oh} = 2,5Vdc\\ \end{array}$



PG5 electronic(100kHz) Supply : 5 to 30Vdc Cons. without load : 40mA 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

		-	+	А	В	0	Α/	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: stainless steel version, connections...)

	Shaft Ø	Supply Output stage	Signals	Resolution	Connection	Connection orientation
ННМЗ		2G2 : 5Vdc TTL / RS422 output		1024 max	GM : M12 8 pinouts	A : axial
	06 : 6mm	PG5 : 5 to 30Vdc Push-pull output (TTL / RS422 available if encoder supply is 5Vdc)	9 : A, A/, B, B/, 0, 0/		G3 : PVC cable 8 wires	D020 : diagonal cable 2m
Ex: HHM3_	06 //	PG5	9 //	01024 //	G3	A020

Available resolutions : 32 64 128 256 1024

Made in FRANCE

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