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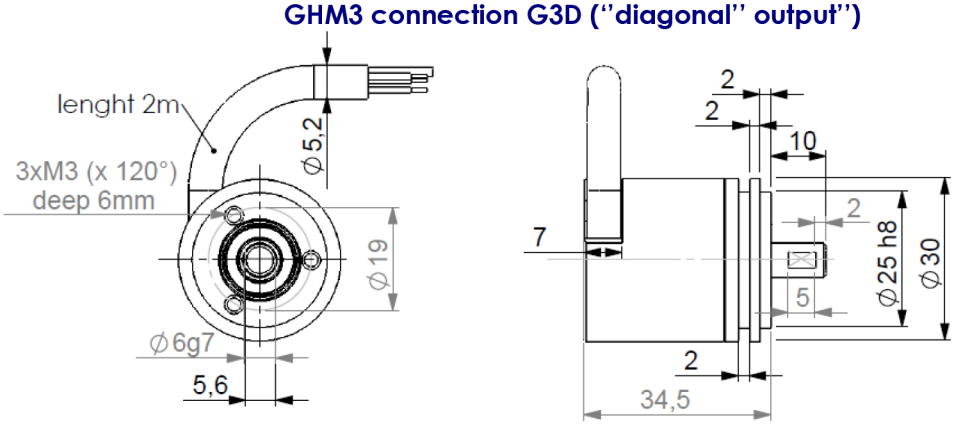
GHM3

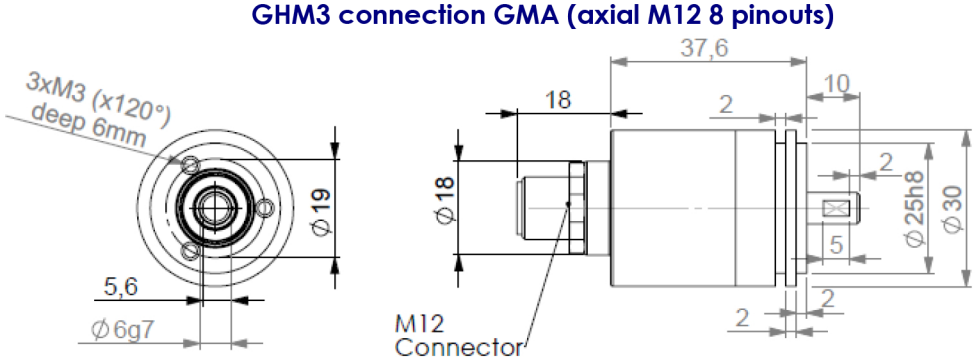
OPTICAL INCREMENTAL ENCODERS, GHM3 RANGE

- 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…

GHM3 connection G3D ("diagonal" output")



GHM3 connection GMA (axial M12 8 pinouts)



MECHANICAL CHARACTERISTICS

Material	Shaft: stainless steel
	Cover: aluminium
	Body: aluminium
Maximal loads	Axial : 10 N
	Radial : 20 N
Shaft inertia	≤ $0{,}2.10^{-6}$ kg.m²
Torque	≤ 4.10^{-3} N.m
Permissible max. speed	6 000 min^{-1}
Continuous max. speed	4 500 min^{-1}
Encoder weight (approx.)	0,150 kg

Isolation	1 000 Veff
EMC	EN 50082-2 (1995)
	EN 50081-1 (1992)
Operating temperature	- 20... + 80 °C (encoder T°)
Storage temperature	- 40... + 80 °C
Protection CEI60529 (1989)	IP 65
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 10^9 turns (F_{axial} / F_{radial})	
5 N / 10 N : 263	10 N / 20 N : 33