

## SINGLE TURN MAGNETIC ABSOLUTE ENCODER WITH SPEED OUTPUT - RS485

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### STM-E-V.0 SINGLE-TURN MAGNETIC ABSOLUTE ENCODER WITHOUT BATTERY.

**Dimensions 73x45x36 mm**, magnetic absolute single-turn encoder with high resolution and speed output for torque control. Data communication RS485 serial bidirectional master and slave 100 k Baud (encoder = slave).

Connector for easy connection and screwless terminals for safety chain connections. (Disengage switch and thermo if needed)

Circuit board lacquer protected against humidity.



PRELIMINARY

Patent pending

#### Specifications

Power supply	10 – 30 VDC	
Current consumption	30 mA	
Resolution	2048 steps (11 Bit)	
Speed output value (by ½ turn/10 sec.)	100	
Communication	RS485 100k baud	
Interface description	Start bit	1
	Data bit	8
	Stop bit	1
	Parity	even
Usefull angle	Single turn 360 degrees	
Connector	AMP 6-pin	
Safety chain terminals	Wago 250204 (Cage Clamp)	
Protection class	IP20	
Temperature	-25 - + 70 °C	
Request telegram for position and speed	2 bytes	
Request interval minimum	1 mS	
Respond telegram	5 bytes (1 header + 2 pos. + 2 speed)	

#### Magnet Rotor

Standard rotor with magnet for Ø12mm shaft



Option rotor for half moon shaft Ø7.9mm



Back side view