

GMIX2 series - magnetic, incremental Length - Measuring - System

With GMIX2, ELGO-Electric offers an incremental measuring system, which can be installed with a distance from up to 4 mm to the magnetic tape. With a resolution of 2.5 mm (repeating accuracy +/- 2.5 mm) and a max. operation speed of 10 m/s (output frequency 4 KHz), GMIX2 is suitable for applications in storage- or conveyor- techniques resp. for longer distances. Thanks wear-free measuring-principle (by magnetic scanning) and high protection class of IP67, the system works in rough environments always uninfluenced and reliably. The translator circuit, which converts the detected signals into 90° shifted square wave signals A and B (like output signals of rotary encoders), is already in the sensor head integrated. Thus GMIX2 can be connected directly to follow-up circuits (e.g. position indicator). The system is supplied with 10... 30 VDC. The output signals are HTL - according to supply level.

			01010		
Technical specifications			D-78239 Str.1		
General datas		160	VDC 24 VDC		
Resolution	:	2.5 mm (at 4 edge	triggering)		
Repeating accuracy	:	+/- 2.5 mm			
Accuracy at 20° C in mm's	:	+/- (1.25 + 0,02 x L) L = effective measuring length in meters			
Distance tape/sensor	:	max. 4,0 mm			
Power supply voltage	:	10 30 VDC, stabilized			
Output levels	:	HTL 10 30 VDC			
		(according to supply		x 0.7 V)	
Material of housing	:	HM-PA (Polyamide),	, black		
Protection class (sensor head)	:	IP 67			
Operation temperature	:	0 ° up to + 50 °C			٦
Output current	:	max. 20 mA per cho		Dimensions of sensor	
Outputs	:	push/pull, durable s	short circuit proof	2,5	
Consumption	:	ca. 30 mA			
Output frequency	:	4 kHz (per channel	A or B)		
Operating speed	:	max. 10,0 m/s			
Cable length	:	on request max. 30	m possible	6,5	
Datas of magnetic tape MB 20.	50 (ac	cessories)		25	
Operation temperature	:	0° up to + 60°C		Ø = 3,2	
Linear expansion coefficient		16 x 10 ⁻⁶ 1/K		Width = 10 mm	
Bending radius	•	minimal 150 mm		- 35	
Protection class	•	IP65		37 37	
	•	100			
Type designation					_
,, 0			GMIX2 – XXX	- XX.X	
Series/Type					
SN-Number —					
000 = standard					
001 = first special version					
002 etc.					
Length of signal cable XX.X m (1 2 5	8 or 10 m)			
	1, 5, 5,				
Magnetic tape MB20.50 (accessories)			MB20.50 - XX	X.X	
ELGO-Magnetic tape 5 mm's P	ole div	ision —			

Length (in m) -

(1 standard roll up to max 32 m, on request up to 1000 meters available)