

# MAGNETIC LINEAR ENCODER SYSTEMS

## “Twin Bearing Actuating Rod”

LTS



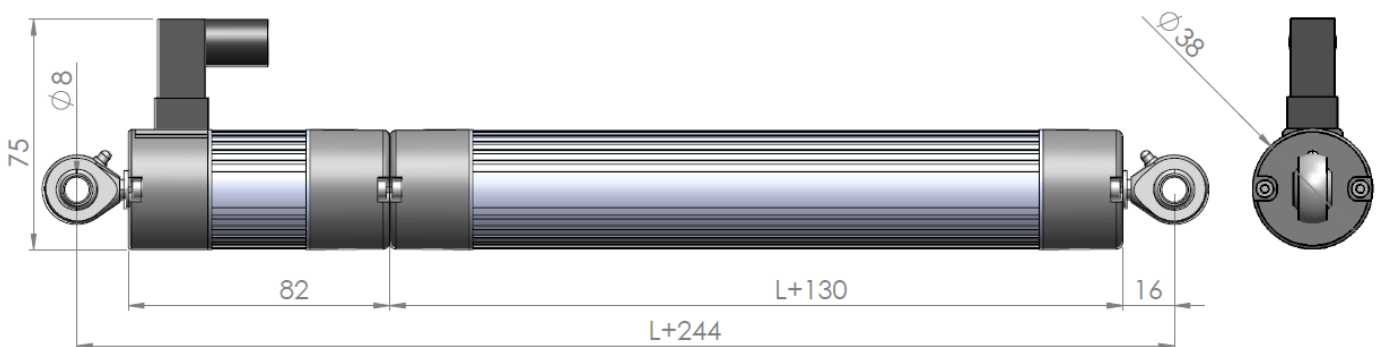
- Measuring lengths up to 1000 mm
- Twin bearing actuating rod
- Encoder signal output
- TTL or Push-Pull signal outputs
- Resolutions starting from 5µm
- IP65 protection class
- 3 m/s high operating speed
- Long service life

The LTS series magnetic linear encoder systems make measurement digitally by incremental encoder system pulse logic as contactless. The biggest advantage of these encoders are that they are easy to mount and are not affected by the deflections, as they are double-sided.

It has different resolutions from 5µm to 100µm. Measuring lengths between 50 mm and 1000 mm are available. They are non-worn because they are non-contact, mechanically have infinite lifetimes. They are resistant to vibration and impacts. They are not affected by bad environmental conditions and electrical noise.

They are used in many sectors such as metal, marble, plastic, textile, saw, packaging.

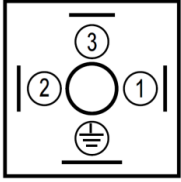
### Mechanical Dimensions



### Technical Specifications

Measuring Distance	Between 50 mm and 1000 mm		
Resolution	5µm, 10µm, 20µm, 25µm, 62.5µm, 80µm and 100µm		
Output Signals	For model with DIN 43650-C connector: A, B For model with cable: A, B, Z or A, /A, B, /B, Z, /Z		
Electrical Interface		Supply	Output
	TTL	5VDC	5 VDC TTL RS422 Line Driver
	PP	10...30 VDC	10...30 VDC Push-Pull
	HTL	10...30 VDC	5 VDC TTL RS422 Line Driver
	HPL	5...30 VDC	5...30 VDC Push-Pull
Operating temperature	-20°C and +85°C		
Electrical Connection	DIN 43650-C connector or cable		
Repeatability	±1 Pulse		
Life	Mechanically infinite		
Housing Material	Anodized aluminum		

## Electrical Connections



DIN 43650-C Connector	Signal
1	B
2	A
3	+Vcc
4	GND

Cable Color	Signal
YELLOW	A
WHITE	/B
RED	+Vcc
BLACK	0 V
BLUE	/A
GREEN	B
GREY	/Z
PINK	Z
SHIELD	GROUND

## Order Details

### Model

### Supply and Output Signal

**TTL** : 5VDC Supply Voltage,  
5 VDC TTL RS422 Line Driver Signal Output  
**PP** : 10...30 VDC Supply Voltage,  
10...30 VDC Push-Pull Signal Output  
**HTL** : 10...30 VDC Supply Voltage,  
5 VDC TTL RS422 Line Driver Signal Output  
**HPL** : 5...30 VDC Supply Voltage,  
5...30 VDC Push-Pull Signal Output

### Measuring Distance

**50** : 50 mm  
**1000** : 1000 mm

LTS	-	XX	-	XXX	-	X	-	XXXX	-	XXX
		<b>Resolution</b> 05: 05µm / B2 10: 10µm / B2 20: 20µm / B2 25: 25µm / B2 62,5: 62,5µm / B2 80: 80µm / B5 100: 100µm / B5					<b>Signal Output</b> 2 : A, B 3 : A, B, Z 6 : A, /A, B, /B, Z, /Z *On model with DIN 43650-C connector, only 2: A, B signal output is available			<b>Electrical Connection</b> No code: DIN43650-C connector 3M: 3 meters cable *Optionally different cable lengths