

### MAIN FEATURES

Rope encoder series with Dyneema rope available for lengths up to 4 m.  
The applied encoder could be incremental or absolute.  
Perfectly suitable also for harsh environments, thanks to its high mechanical strength.  
It can be used in wide range of applications such as: vertical storehouses, presses, extruders, etc.



### ORDERING CODE

**FE 1500 A - EH30**

<b>SERIES</b> rope encoder for linear measures	<b>FE</b>		
<b>WORKING STROKE</b>	1,5 m <b>1500</b>		
	4 m <b>4000</b>		
<b>TYPE OF ROPE END</b>	eyelet <b>A</b>		
<b>ENCODER FLANGE MODEL</b>	<b>EH30</b>		
	<b>EL/ER53</b>		
	<b>EAM53</b>		

The encoder applied to the FE model must be ordered separately. The F letter must be placed before the ordering code.

Example:

- 1) encoder model EH 30 M ordering code: FEH30M300S5/28P6X6PR
- 2) encoder model EL 53 B ordering code: FEL53B1100S5/28P6X3MR
- 3) encoder model EAMR 53 B ordering code: FEAMR53B12/13G8/30SX6XM12R
- 4) encoder model EAML 53 B ordering code: FEAML53B16B12/30V010X6M12R

Complete ordering code example:

**FE1500A-EH30**  
**FEH30M1024S5/28P6X6PR**

### SPECIFICATIONS

Model	FE 1500	FE 4000
<b>Linearity error</b>	± 0,75 mm	± 2 mm
<b>Drum circumference</b>	120 mm	220 mm
<b>Max speed</b>	0,85 m/s	
<b>Pull-out force required</b>	≥ 9 N (2,02 lbs)	
<b>Enclosure rating</b>	depends on encoder IP	
<b>Shock</b>	50 G, 11 ms (IEC 60068-2-27)	
<b>Vibration</b>	10 G, 10 ... 2000 Hz (IEC 60068-2-6)	
<b>Housing material</b>	painted aluminum	
<b>Rope material</b>	Dyneema®	
<b>Operating temperature</b>	-10° ... +60°C (+14° ... +140°F)	
<b>Storage temperature</b>	-25° ... +70°C (-13° ... +158°F)	
<b>Weight</b>	500 g (17,64 oz) mod. 1500 1100 g (38,80 oz) mod. 4000	
<b>Electromagnetic compatibility</b>	see encoder	
<b>RoHS</b>	see encoder	

**For encoder specifications, refer to single product datasheet :**

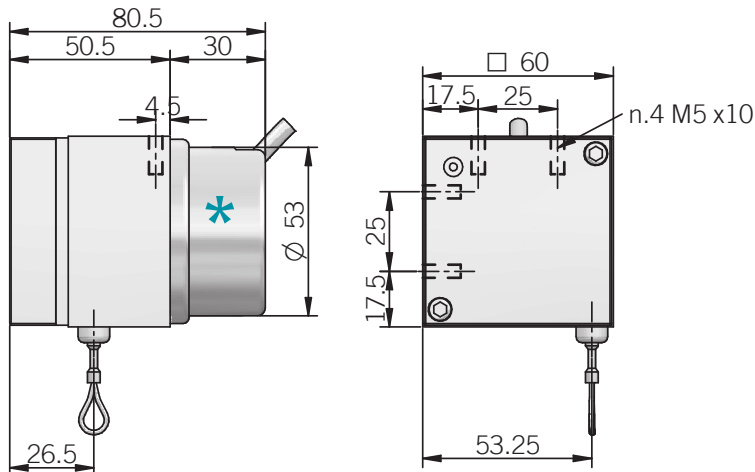
- FEH 30 M see EH 30 M - EH 30 MH encoder
- FEL 53 B see EL - ER 53 encoder
- FEAMR 53 B see EAMR 58 - 63 solid shaft encoder
- FEAML 53 B see EAML 58 - 63 solid shaft encoder

### FE installation notes

A 5 mm wire extension is recommended before the measurement starting point.  
This prevents the wire snapping back to the stop on rewinding.  
Wire should be pulled out straight in line with wire outlet; the wire must not spring back loosely, it must be stressed by spring force in every situation and movement.  
Do not twist or bend the wire seat or wire.  
Do not open the spring case of the rope encoder.  
Do not extend the wire beyond the specified maximum extension length.

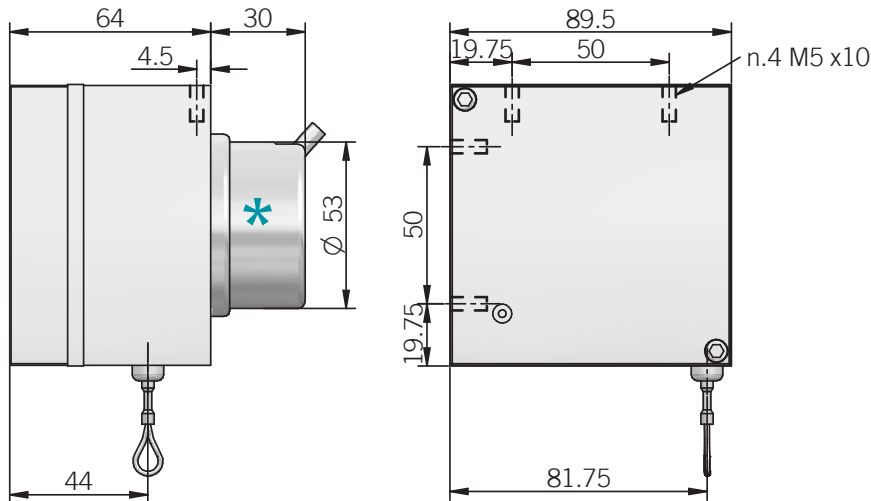
**Mechanical resolution [mm] = Drum circumference [mm] / Encoder pulses [ppr o singleturn resolution]**

**FE 1500**



\* dimensions with EH30M encoder

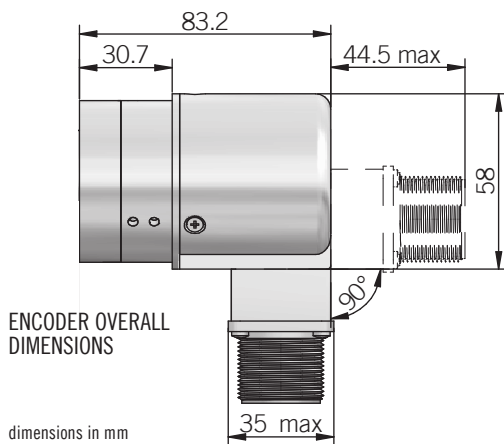
**FE 4000**



\* dimensions with EH30M encoder

**FEL 53 B**

\* INCREMENTAL ENCODER APPLICATION



**FEAM 53 B**

\* MULTITURN ABSOLUTE ENCODER APPLICATION

