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 enviroments, 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 | . XXX |

SERIES
rope encoder for linear measures FE

WORKING STROKE
1,5 m 1500
4 m 4000

TYPE OF ROPE END
eyelet A

VARIANT
custom version XXX

The encoder you wish to apply to the FE model needs to be ordered separately. The F letter will be placed before the standard ordering code.

Example:
1) encoder model EH 30 M ordering code: FEH30M300S8/24P6X6PR
2) encoder model EL 53 B ordering code: FEL53B1100S5/28P6X3MR
3) encoder model EAM 53 B ordering code: FEAM53B16/4096G8/28PPX6X3MER

Complete ordering code example:
FE1500A-FEH30M300S8/24P6X6PR
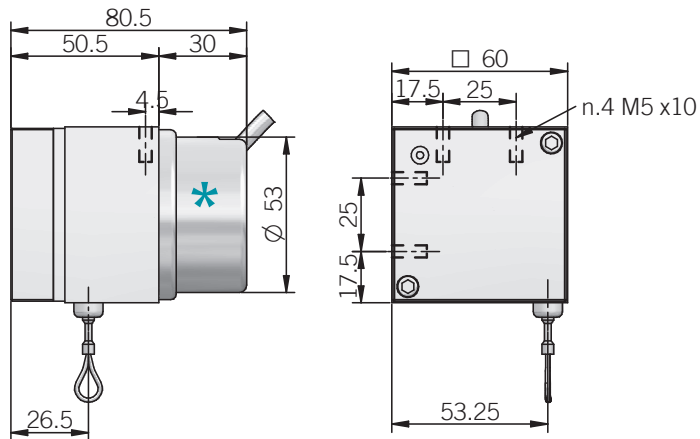**For encoder specifications, refer to single product datasheet :**
- EH 30 M see EH 30 M - EH 30 MH encoder
- EL 53 B see EL - ER 53 encoder
- EAM 53 B see EAM 58 - 63 solid shaft encoder

MECHANICAL SPECIFICATIONS

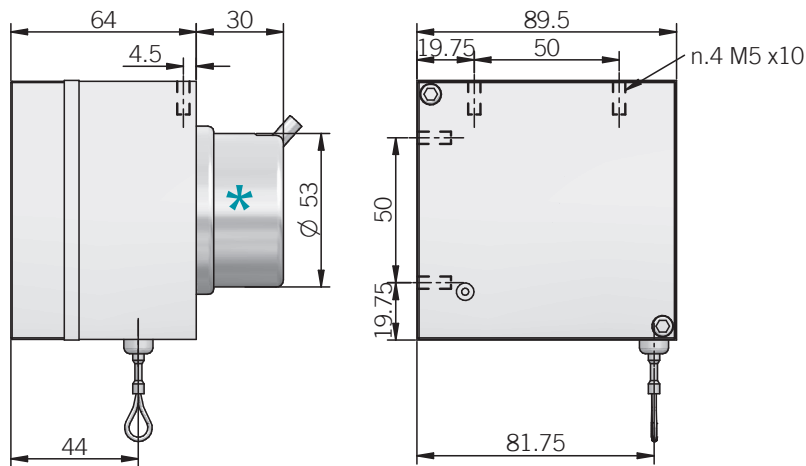| Model	FE 1500	FE 4000
Linearity error	± 0,75 mm	± 2 mm
Drum circumference	120 mm	220 mm
Max speed	0,85 m/s	
Pull-out force required	≥ 9 N	
Enclosure rating	depends on encoder IP	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	10 G, 10 ... 2000 Hz (IEC 60068-2-6)	
Housing material	painted aluminum	
Rope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

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

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FE 1500

80.5
50.5
30
4.5
∅ 53
26.5

□ 60
17.5
25
n.4 M5 x10
25
17.5
53.25

*

* dimensions with EH30M encoder

FE 4000

64
30
4.5
∅ 53
44

89.5
19.75
50
n.4 M5 x10
50
19.75
81.75

*

* dimensions with EH30M encoder

FEL 53 B

✳ incremental encoder application

83.2
30.7
44.5 max
58
90°

encoder overall
dimensions

35 max

dimensions in mm
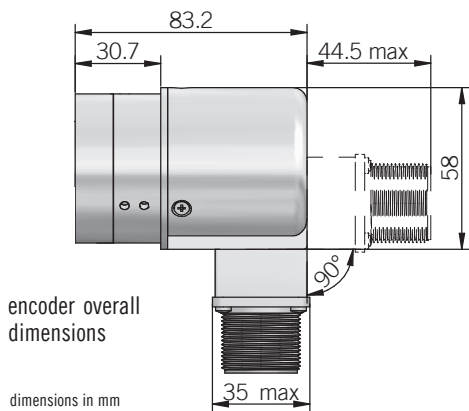
FEAM 53 B

✳ multiturn absolute encoder application

123.2
33.2
90
64
92

encoder overall
dimensions

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