DRAW-WIRE

Absolute draw-wire encoder with analogue output

Series **SFAM1 TA • SFAM2 TA**

- Integrated absolute encoder
- Programmable analogue output
- Compact design & easy installation
- 5000 & 10000 mm measuring length
- Teach-in of travel length by push buttons
- Output 0-5V, 0-10V & 4-20mA
- Overrun function
- Cable or M12 connector



SFAM1 TA • SFAM2 TA

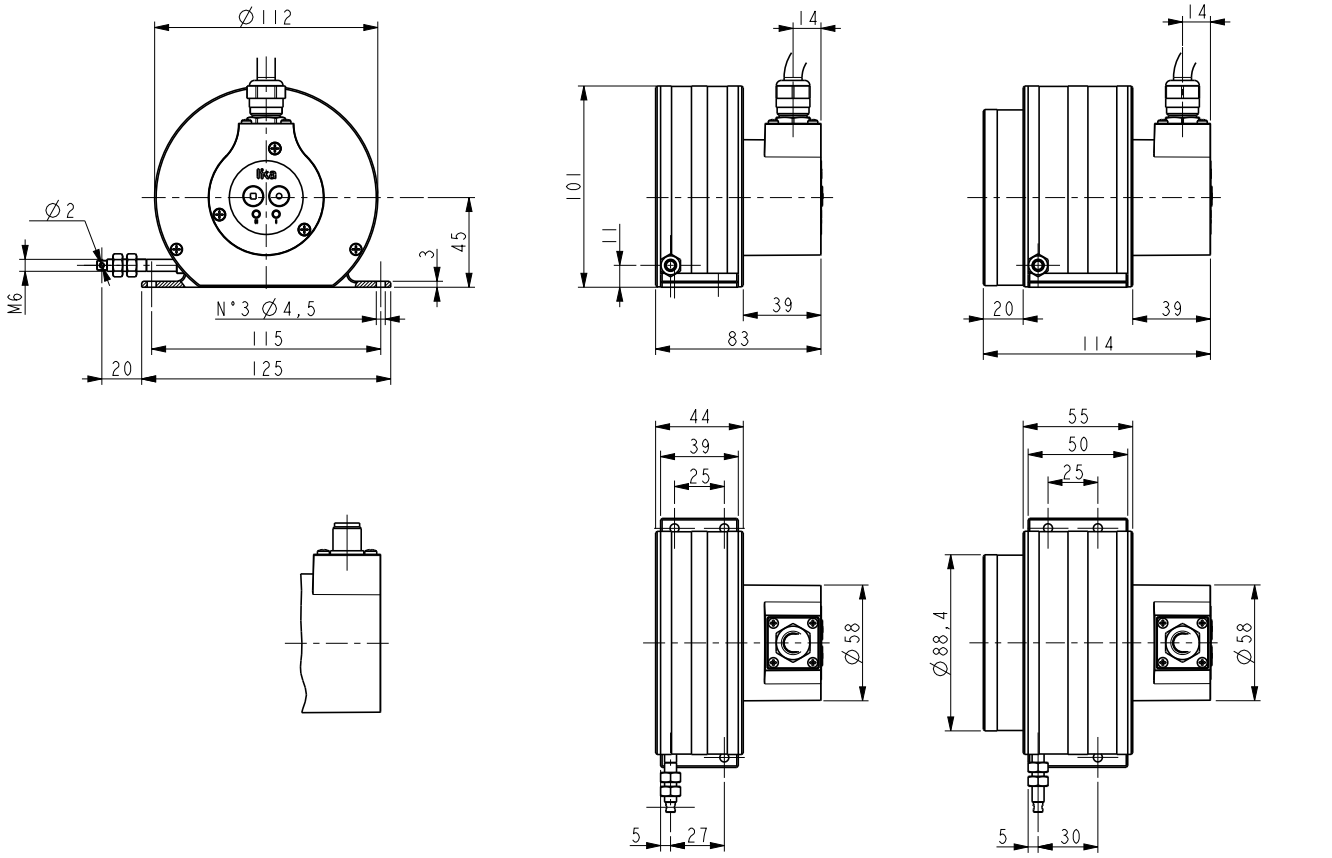
ENVIRONMENTAL SPECIFICATIONS	
Shock:	100 g, 6 ms
Vibrations:	10 g, 5-2000 Hz
Protection:	IP65
Operating temperature range:	-40°C +85°C (-40°F +185°F)
Storage temperature range:	-40°C +100°C (-40°F +212°F) (98% R.H. without condensation)

MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing
Drum circumference:	200 mm
Wire retraction force:	5000: 3,2 ÷ 6,5 N 10000: 3,2 ÷ 6 N
Measuring length:	5000, 10000 mm
Linearity:	± 0,5 mm
Repeatability:	± 0,1 mm
Measuring speed:	2 m/sec max.
Weight:	~ 0,8 kg
Connections:	M12 plug or cable output 1 m

ELECTRICAL SPECIFICATIONS	
Power supply:	+13Vdc +30Vdc
Output circuit:	0-5V, 0-10V, 4-20mA
Output range:	adjustable by teach-in buttons
Resolution:	65536 steps of output range (min. step = 0,048 mm)
Consumption:	1,5 W
Protection:	against inversion of polarity and short-circuit
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EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4
Optoelectronic life:	> 100.000 h
Functions:	• Teach-in of travel length • Overrun

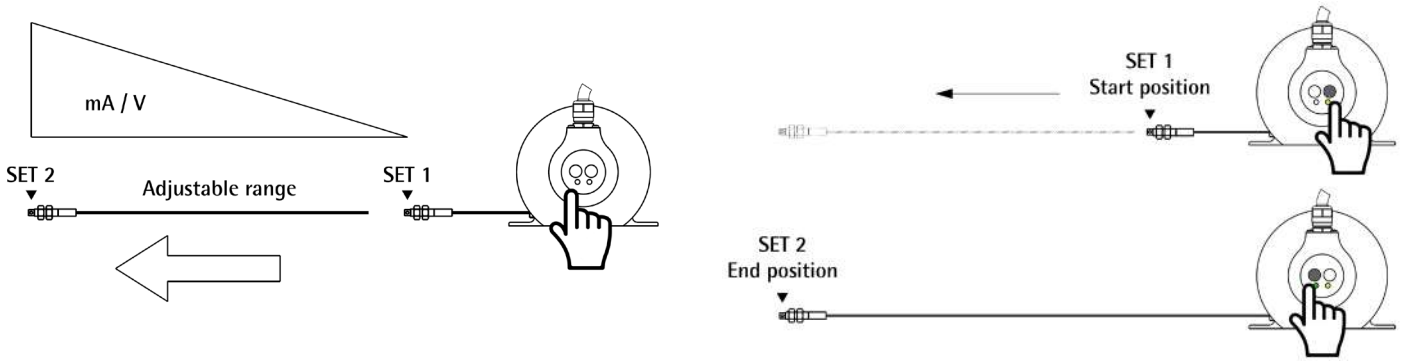
MATERIALS	
Housing (draw-wire):	anticorodal, UNI EN AW-6082
Housing (encoder):	die cast alluminium, UNI EN AC-46100
Wire:	stainless steel, non magnetic - UNI EN 4305

ACCESSORIES	
E-M12FC:	M12 5 pin connector
EC-M12FC-LK-I5-5:	M12 cordset with 5 m cable
EC-M12FC-LK-I5-10:	M12 cordset with 10 m cable



SFA-5000 TA

SFA-10000 TA



Order code

SFAM1 SFAM2	-	XXXXX ⓐ	-	XXXX ⓑ	-	00PRG ⓒ	-	X ⓓ	-	XXXX ⓔ	/Sxxx ⓕ

ⓐ MEASURING LENGTH
05000 = 5000 mm (SFAM1)
10000 = 10000 mm (SFAM2)

ⓑ OUTPUT CIRCUIT / POWER SUPPLY
TI12 = 4-20 mA, +13Vdc +30Vdc
TV12 = 0-5V, +13Vdc +30Vdc
TV22 = 0-10V, +13Vdc +30Vdc

ⓒ RESOLUTION
00PRG = adjustable by teach-in

ⓓ CONNECTION POSITION
R = radial

ⓔ CABLE TYPE & LENGTH
L010 = cable output 1 m
Lxx0 = cable output x m (max. length 10 m)
M5 = M12 5 pin plug

ⓕ CUSTOM VERSION

Document release	Date	Description
1.0	September 2023	New order code