



Position measurement & control



Draw wire units

ROTAPULS • ROTACOD

Miniature wire actuated transducer

series

SFME



- Space saving design
- Integrated encoder
- Measuring length 1500 mm



SFME



www.lika.biz
• Data-sheet

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range: $-20^{\circ}\text{C} + 70^{\circ}\text{C}$ ($-4^{\circ}\text{F} + 158^{\circ}\text{F}$)
Protection: IP54

MECHANICAL SPECIFICATIONS

Dimensions: see drawing
Stroke per turn: 100 mm
Wire retraction force: $5 \div 15$ N
Measuring length: < 1500 mm
Measuring speed: 2,5 m/sec max.
Weight: $\sim 0,8$ kg
Connections: cable 2,0 m

ELECTRICAL SPECIFICATIONS

Power supply: +5Vdc +30Vdc
Output circuit: Universal circuit PP/LD
Resolution: 1 / 0,5 / 0,4 / 0,05 mm
Output current: 40 mA max.
Input current: 60 mA max.
Output signals: AB, /AB

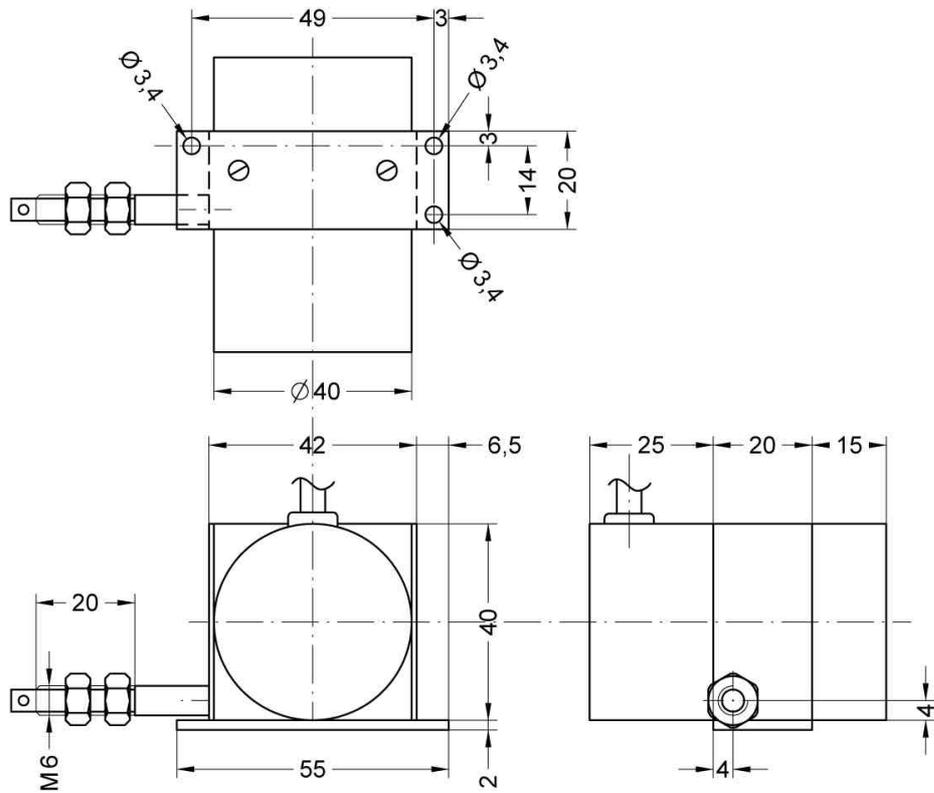
MATERIALIEN - MATERIALI USATI

Housing: Aluminium + plastic
Wire: Stainless steel

ELECTRICAL CONNECTIONS

Cable	Function
yellow	A
blue	/A
green	B
orange	/B
white	0
grey	/0
red	+Vdc
black	0 Vdc GND

cable LIKA 8x0,25 mm² (LIYCY)



SFME

ORDERING CODE

	XXXX	-	XXXX	-	X	XXX	X	X		
SERIES	SFME								Cable length on request: Lx Ex.: L2 = 2 meters L4 = 4 meters	
MEASURING LENGTH	1500 mm								POWER SUPPLY	
	1500								4 +5Vdc +30Vdc	
OUTPUT CIRCUIT	PP/LD universal circuit								RESOLUTION	
	H					100	1 mm (x4 = 0,25 mm)			
						200	0,5 mm (x4 = 0,125 mm)			
						250	0,4 mm (x4 = 0,1 mm)			
						500	0,2 mm (x4 = 0,05 mm)			

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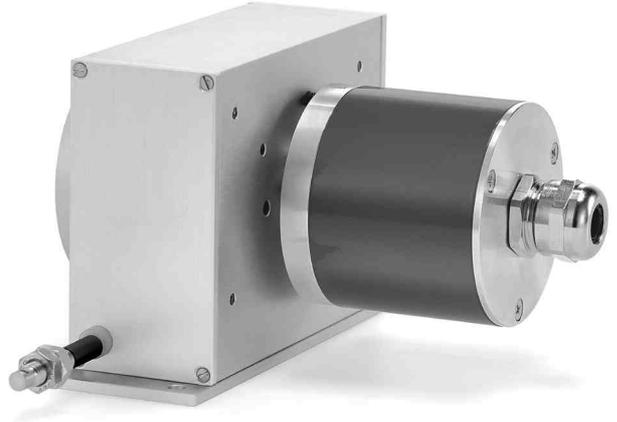
Wire actuated transducer for encoders

series

SF



- Reduced dimensions
- Suitable for every CK58 and AMC58 encoder series
- Measuring length up to 6800 mm



SF



www.lika.biz
• data sheet

SUITABLE ENCODER

CK58-H-500ZCU415R (see on page 11):	Incremental encoder
CK58-H-2000ZCU415R (see on page 11):	Incremental encoder
AMC5812/4096GS-15 + E10MLS (see on page 11):	SSI absolute encoder
AMC5812/4096PB-15 + CC-PB (see on page 11):	Profibus absolute encoder

ENVIRONMENTAL SPECIFICATIONS

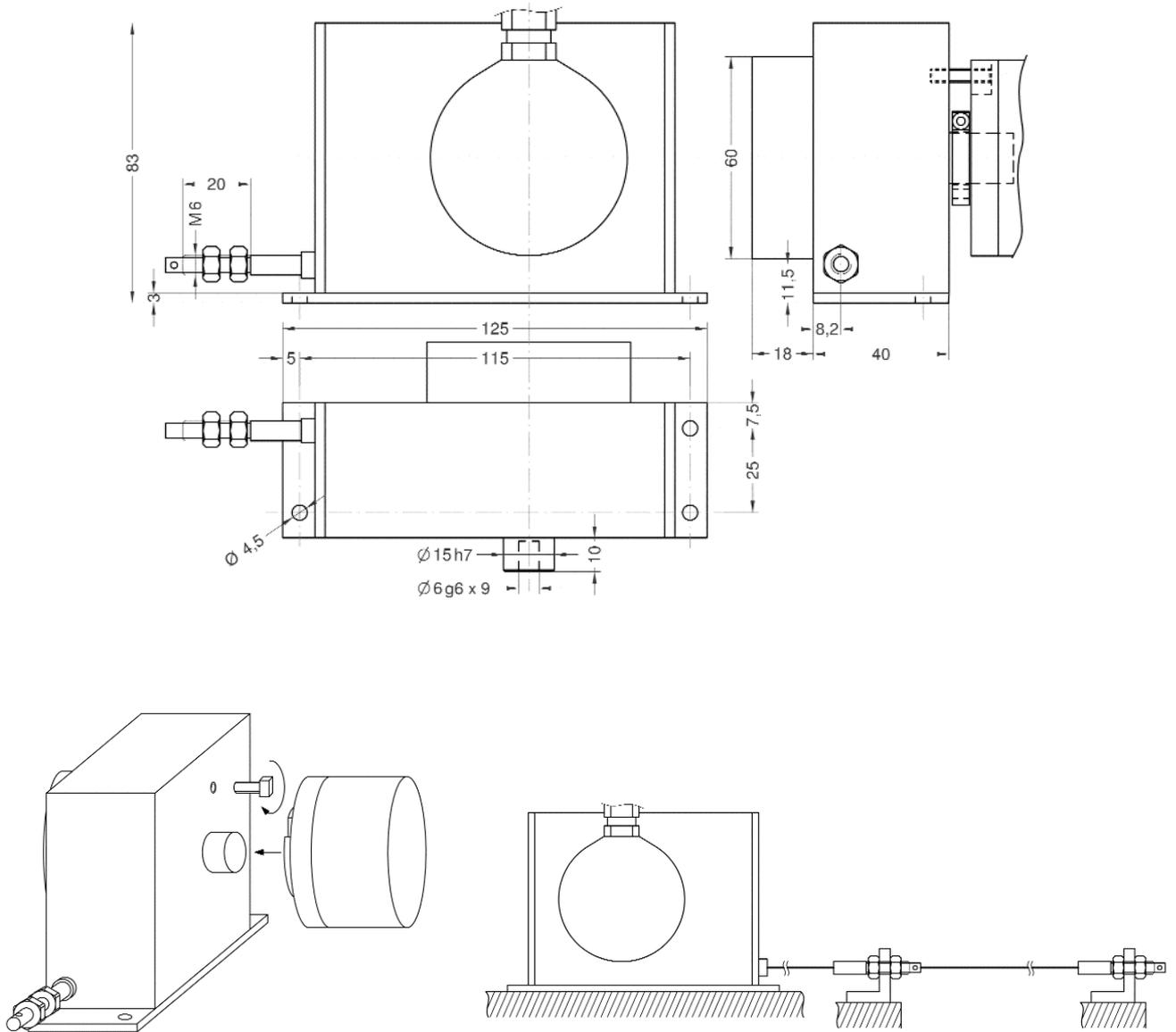
Operating temperature range:	-20°C + 70°C (-4°F + 158°F)
Protection:	see encoder

MECHANICAL SPECIFICATIONS

Dimensions	see drawing
Stroke per turn:	200 mm
Wire retraction force:	5 ÷ 15 N
Measuring length:	< 6800 mm
Measuring speed:	2,5 m/sec max.
Weight:	~ 0,8 kg (without encoder)

MATERIALIEN - MATERIALI USATI

Housing:	Anodized aluminium
Wire:	Stainless steel



SF

ORDERING CODE

	XX	-	X	-	XXXX
SERIES					
STROKE PER TURN					
	SF		I		5000 5000 mm 6800 6800 mm
				MEASURING LENGTH	

ROTAPULS • ROTACOD

Wire actuated transducer for encoders

Series

SAK



- Reinforced winding mechanism
- Measuring length up to 15.000 mm



SAK

SUITABLE ENCODER

I58-H-3000ZCU46RL2 (see on page 11):	Incremental encoder
I58-H-3000ZCZ46R + EPFL121 (see on page 11):	Incremental encoder
AM5812/4096PS-6 + EPFL121 (see on page 11):	SSI programmable absolute encoder
AM5812/4096GS-6 + E10MLS (see on page 11):	SSI absolute encoder
AM5812/4096PB-6 + CC-PB (see on page 11):	Profibus absolute encoder

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-20°C + 70°C
Protection:	see encoder

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	300 mm
Wire retraction force:	5 ± 15 N
Measuring length:	10.000, 15.000 mm
Measuring speed:	10 m/sec max.
Acceleration:	1,4 g max.
Linearity:	± 0,05% FS max.
Weight:	~ 9 kg (except encoder)

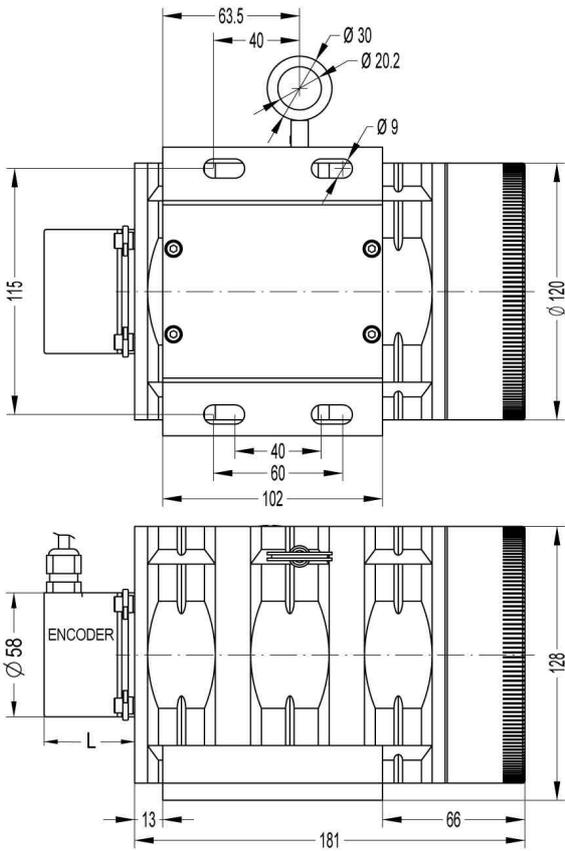
MATERIALS

Housing:	Aluminium
Wire:	Stainless steel

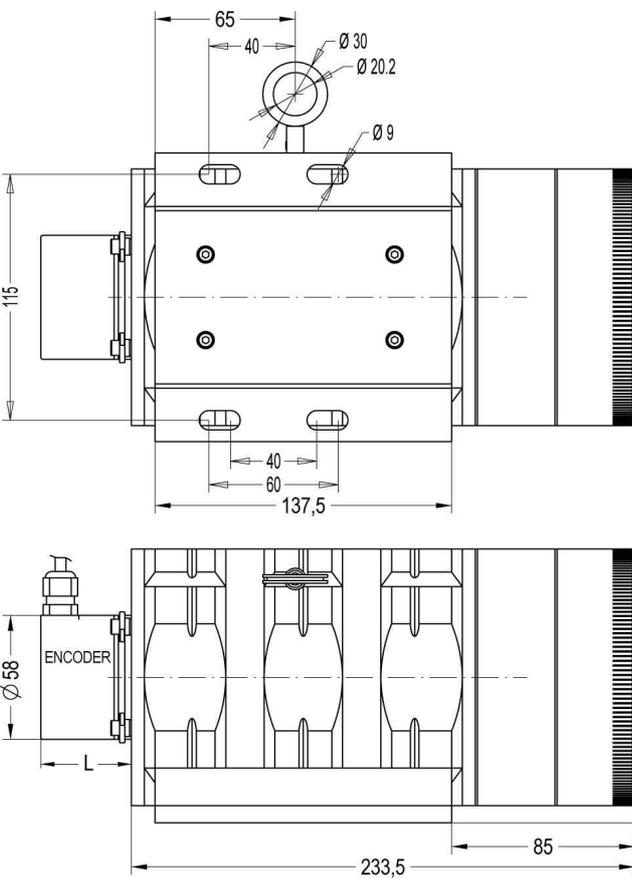
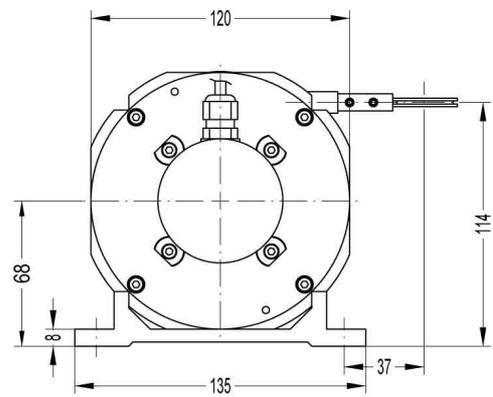
ORDERING CODE



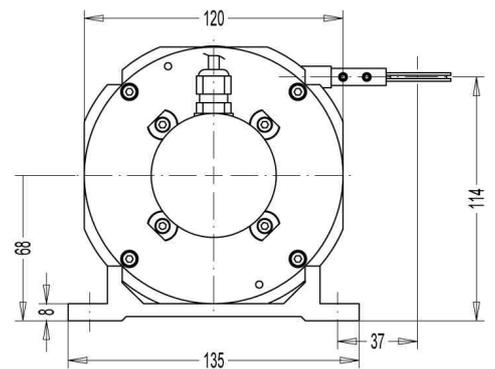
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 • Datenblatt/Data-sheet

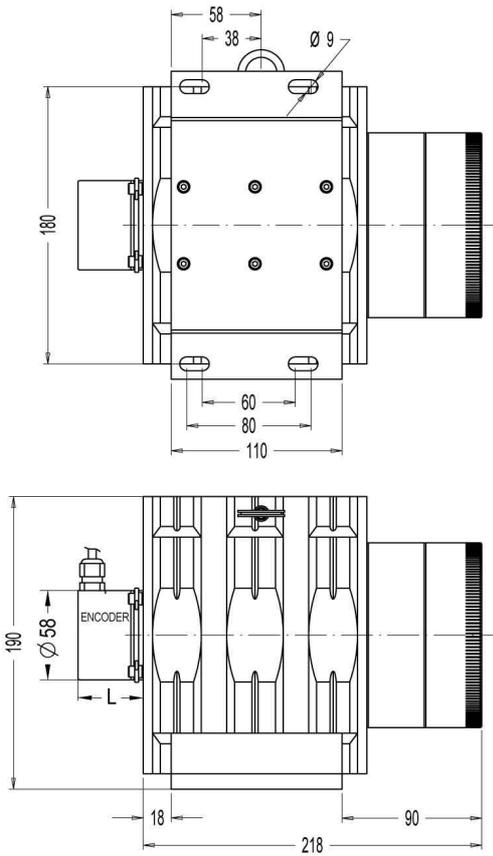


SAK-10000

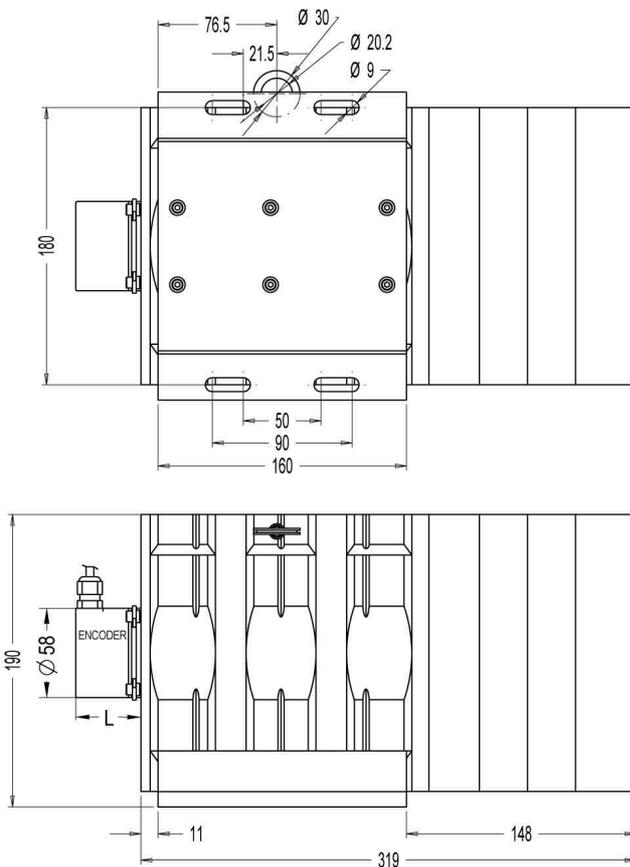
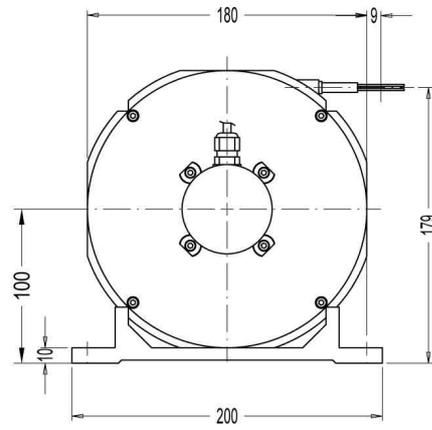


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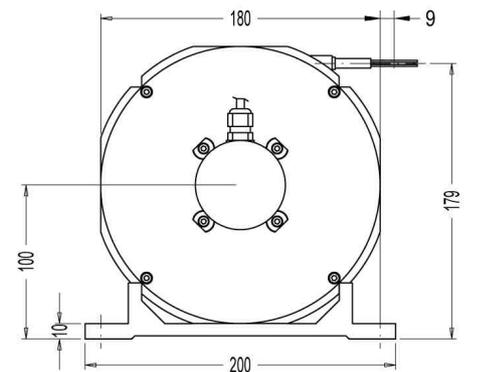


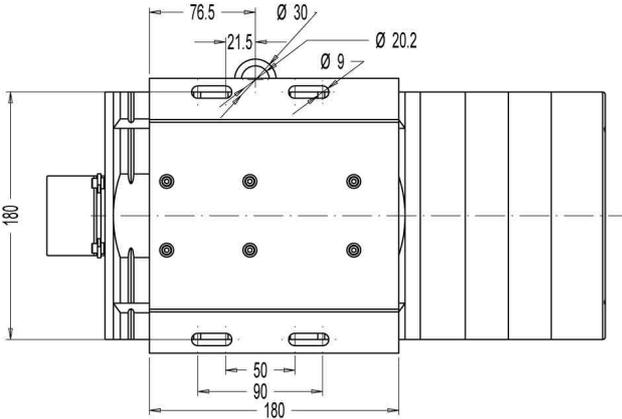


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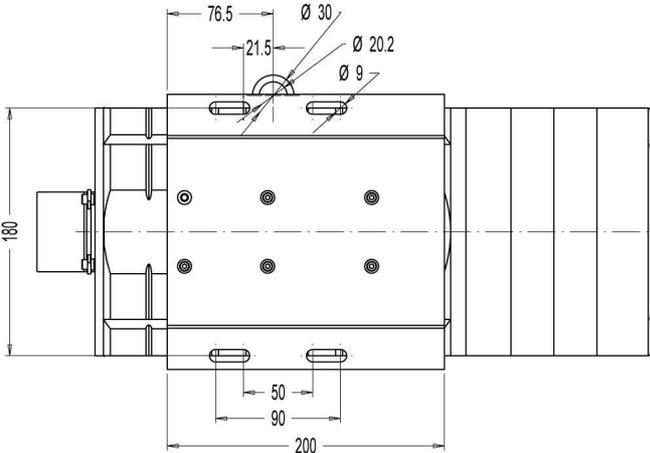
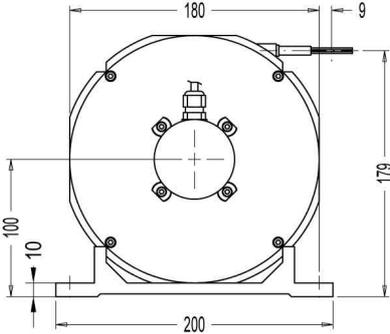
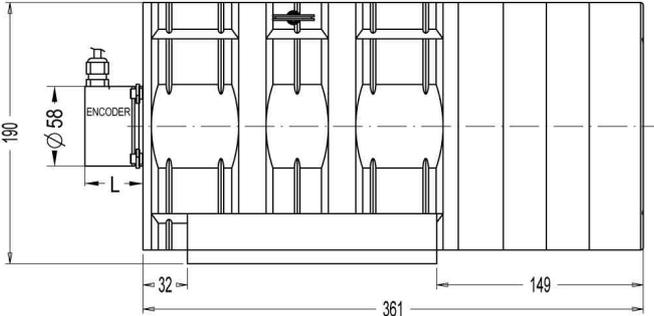


SBK-30000

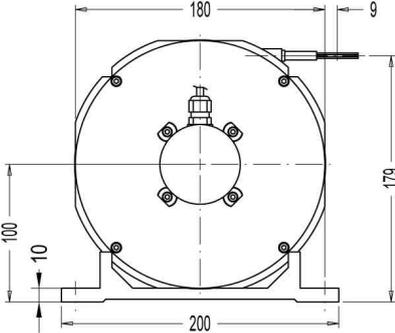
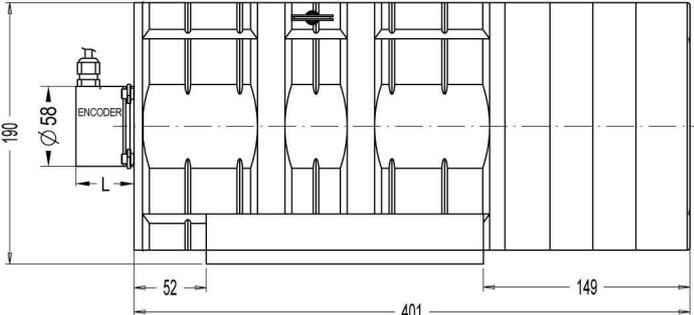




SBK-40000



SBK-50000



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Wire actuated transducer for encoders

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CK58



AMC58



AMC58 PB

SF SUITABLE ENCODERS*

* Also all CK58, ASC58 and AMC58 series with \varnothing 15 mm hollow shaft

Series	Resolution	Output	"L" see drawing
CK58-H-500ZCU415R	0,4 mm (x4 = 0,1)	PP/LD Universal circuit	~ 42 mm
CK58-H-2000ZCU415R	0,1 mm	PP/LD Universal circuit	~ 42 mm
AMC5812/4096GS-15 + E10MLS	~ 0,049 mm	SSI	~ 80 mm
AMC5812/4096PB-15 + CC-PB	0,1 mm*	Profibus	~ 80 mm

*Programmed resolution by the customer at 2000 counts/rev.



I58



AM58



AM58 PB

SAK SUITABLE ENCODERS*

* Also all I58, AS58 and AM58 series with \varnothing 6 mm shaft

Series	Resolution	Output	"L" see drawing
I58-H-3000ZCU46RL2	0,1 mm	PP/LD Universal circuit	~ 42 mm
I58-H-3000ZCZ46R + EPFL121	0,1 mm	PP/LD Universal circuit	~ 42 mm
AM5812/4096PS-6 + EPFL121	0,1 mm*	SSI programmable	~ 80 mm
AM5812/4096GS-6 + E10MLS	~ 0,073 mm	SSI	~ 80 mm
AM5812/4096PB-6 + CC-PB	0,1 mm*	Profibus	~ 80 mm

*Programmed resolution by the customer at 3000 counts/rev.



I58



AM58



AM58 PB

SBK SUITABLE ENCODERS*

* Also all I58, AS58 and AM58 series with \varnothing 6 mm shaft

Series	Resolution	Output	"L" see drawing
I58-H-1250ZCU46RL2	0,4 mm (x4 = 0,1)	PP/LD Universal circuit	~ 42 mm
I58-H-5000ZCZ46R + EPFL121	0,1 mm	PP/LD Universal circuit	~ 42 mm
AM5813/4096PS-6 + EPFL121	0,1 mm*	SSI programmable	~ 80 mm
AM5813/4096GS-6 + E10MLS	~ 0,061 mm	SSI	~ 80 mm
AM5813/4096PB-6 + CC-PB	0,1 mm*	Profibus	~ 80 mm

*Programmed resolution by the customer at 5000 counts/rev.



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