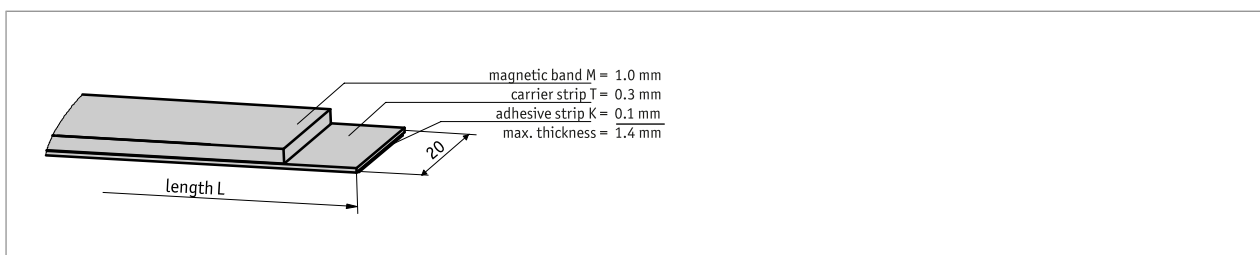


Profile

- Easy mounting, field-wireable
- flexible measurement radiuses
- Measurement range <math><360^\circ</math>



Mechanical data

Feature	Technical data	Additional information
Band width	20 mm	
Band thickness	1.4 mm	
Mounting type	adhesive connection	
Accuracy class	$\pm 50 \mu\text{m}$ at $T_U = 20^\circ \text{C}$	

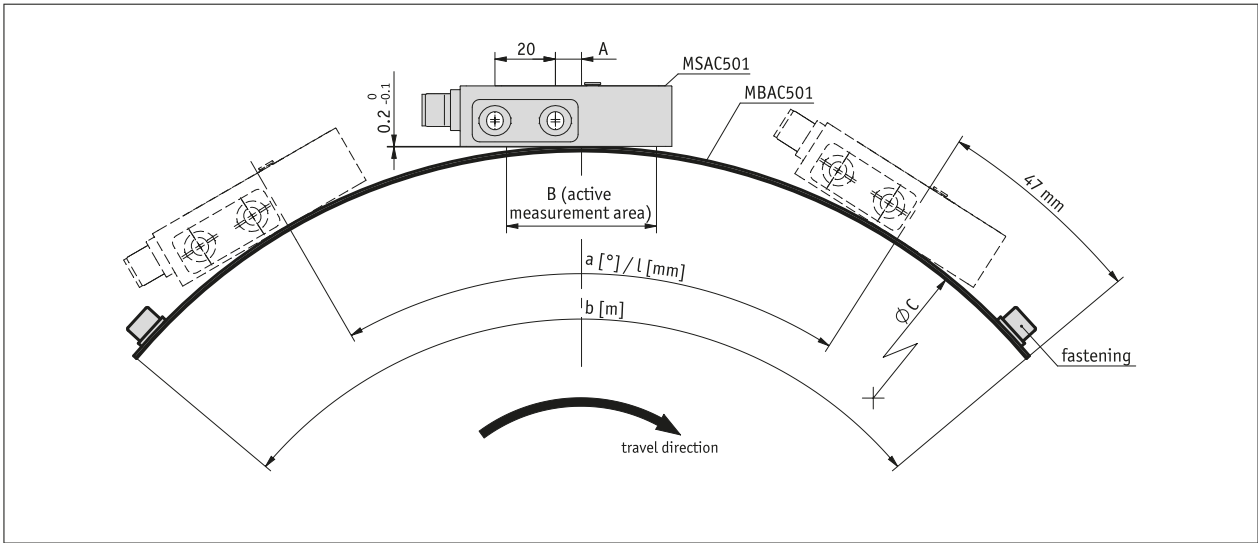
System data

Feature	Technical data	Additional information
Measuring range	$\leq 10240 \text{ mm}$	
Circumferential speed	$\leq 10 \text{ m/s}$	see MSAC501 sensor

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	$-40 \dots 80^\circ \text{C}$	
Storage temperature	$-40 \dots 80^\circ \text{C}$	
Expansion coefficient	$(11 \pm 1) \times 10^{-6} / \text{K}$	
Relative humidity	100 %	condensation admissible

Hint for mounting



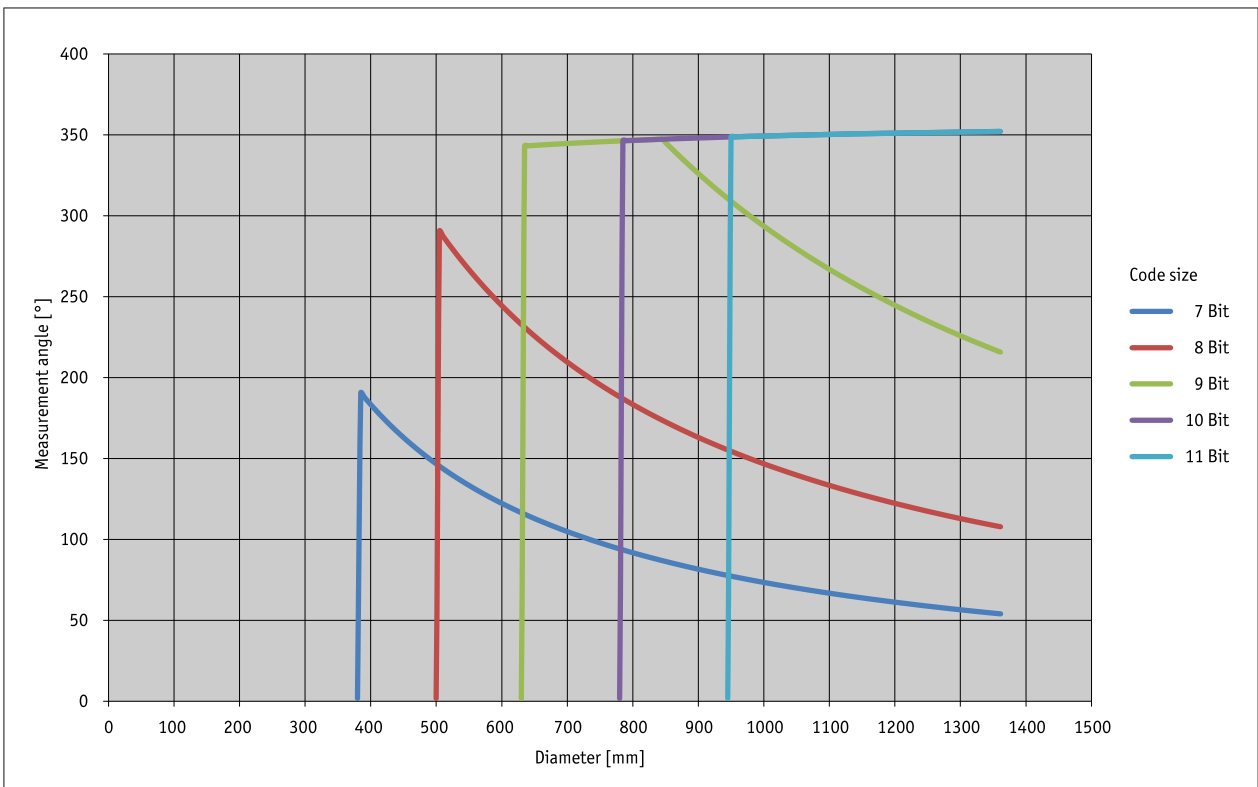
■ Dimensions

code size	Measurement A [mm]	Measurement B [mm]	Measurement øC [mm]	Measurement angle a [°]	Measurement length l [mm]
7 Bit	11.1	35	≥384	<190 *	≤640
8 Bit	8.6	40	≥501	<290 *	≤1280
9 Bit	6.1	45	≥634		≤2560
10 Bit	3.6	50	≥782		≤5120
11 Bit	1.1	55	≥946		≤10240

* For smallest dimension øC

Calculation of the "required tape length b" see order

■ Diameter/measurement angle chart



■ Check of maximum measurement length

Formula:

$$l^* = \frac{a \times \varnothing C \times \pi}{360^\circ}$$

Legend:

l [mm] Measuring length
 a [°] Measurement angle
 øC [mm] Diameter

* The calculated length l must be smaller than the measured length l in the dimension table.

Order

■ Required tape length

Formula:

$$l^* = \frac{a \times \varnothing C \times \pi}{360^\circ}$$

Legend:

l [mm] Measuring length
 a [°] Measurement angle
 øC [mm] Diameter

■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
length	A ...	00.50 ... 75.00 m, in intervals of 0.1 m	
code size	B 7	7 bit	
	8	8 bit	
	9	9 bit	
	10	10 bit	
	11	11 bit	
adhesive carrier tape	C TM	with	
	TO	without	

■ Order key



 **Scope of delivery:**
 MBAC501