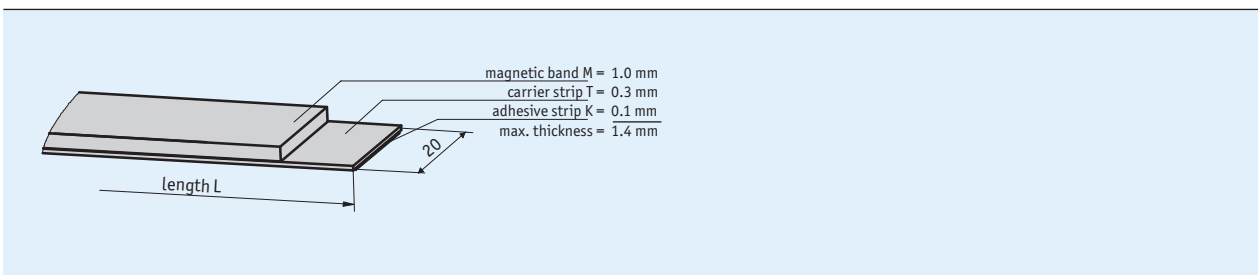


Profile

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



Mechanical data

Feature	Technical data	Additional information
Band width	20 mm	
Band thickness	1.4 mm	without cover strip
Mounting type	adhesive connection	
Accuracy class	$\pm 50 \mu\text{m}$	at $T_{ij} = 20 \text{ }^\circ\text{C}$

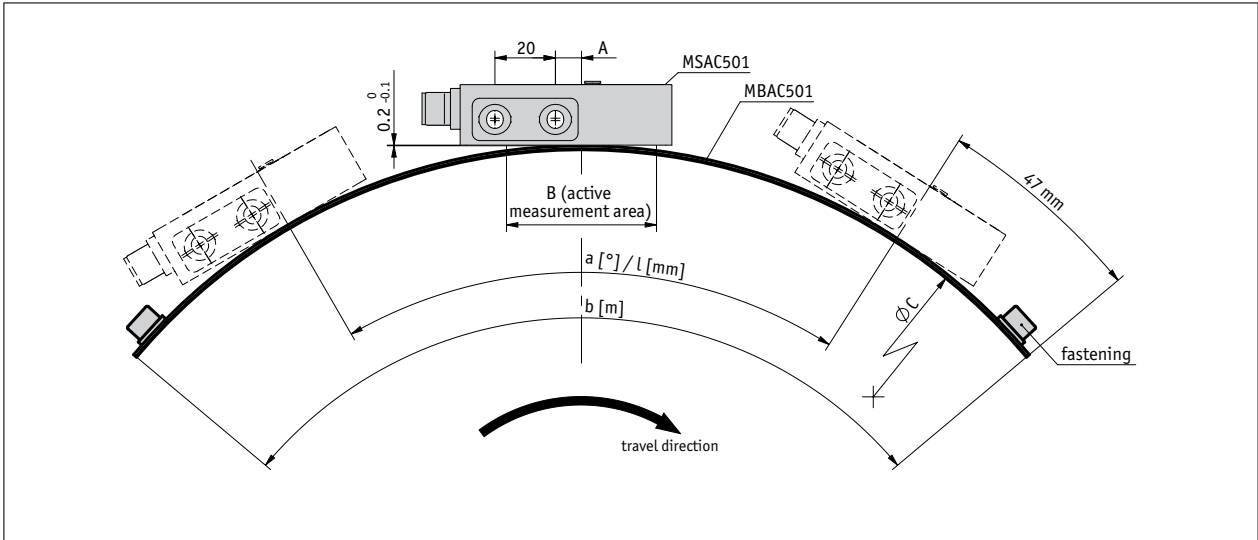
System data

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

Hint for mounting

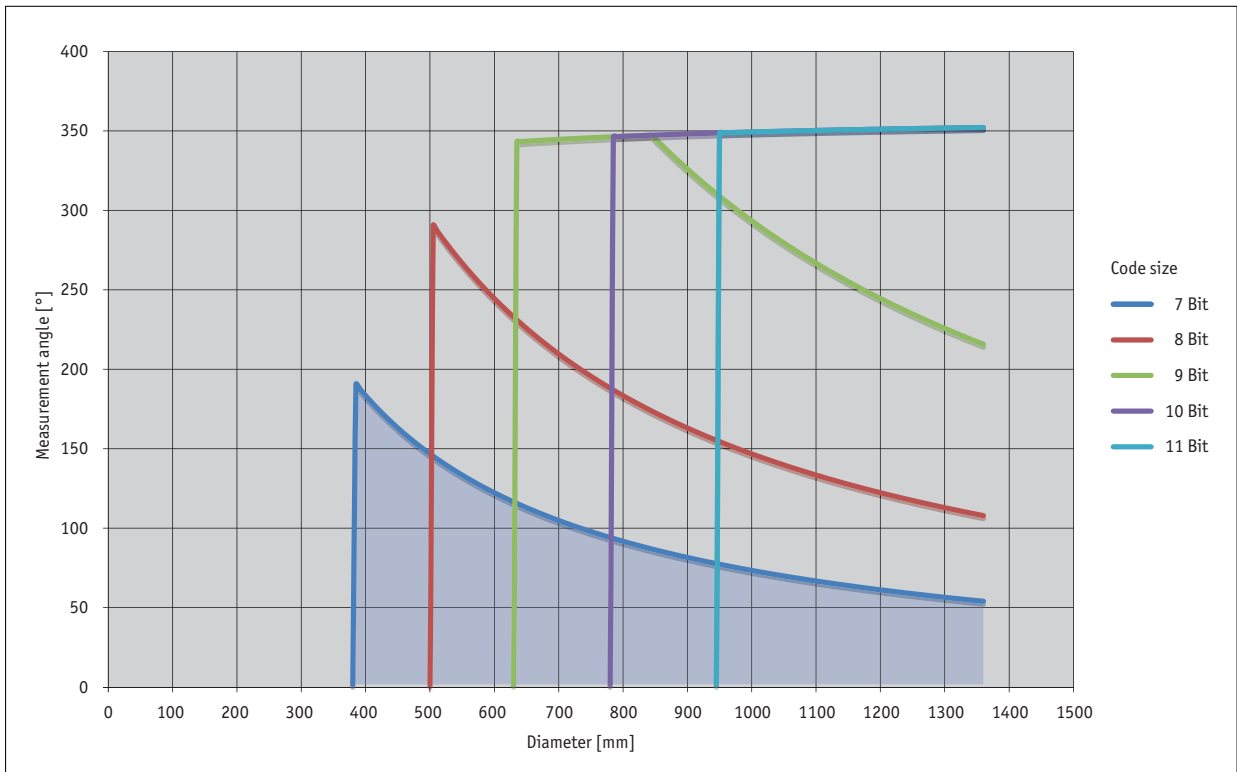


■ Measurement table

Code size	Measurement A [mm]	Measurement B [mm]	Measurement ϕC [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

* With the smallest measurement ϕC
For calculating the "required tape length" b refer to the order

■ Diameter/measurement angle chart



■ **Checking the maximum measuring length**

Formula:

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

Legend:

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

* Calculated length l must be smaller than measurement length l in the table of dimensions.

Order

■ **Ordering information**

One or more system components are required:

Magnetic sensor MSAC501

www.siko-global.com

■ **Required tape length**

Formula:

$$b = \frac{a \times \varnothing C \times \pi}{360^\circ \times 1000} + 2 \times 0.047 \text{ m}$$

Legend:

b [m] Band length
a [°] Measurement angle
ϕC [mm] Diameter

■ **Ordering table**

Feature	Ordering data	Specification	Additional information
Length	... A	00.50 ... 75.00 in m	
Code size	7 B	7 bits	
	8	8 bits	
	9	9 bits	
	10	10 bits	
	11	11 bits	
Adhesive carrier tape	TM C	with	
	TO	without	

■ **Order key**

MBAC501 - - -

Scope of delivery: MBAC501