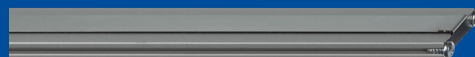


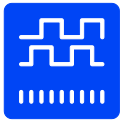


PMIB3

Magnetic measuring scale
for posimag[®] sensors



- **Adhesive magnetic tape, applicable also on curved surface**
- **Resistant to contamination**
- **With stainless steel base**
- **High temperature resistance**



PMIB3 - Magnetic measuring scale for adhesive taping

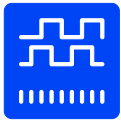
Specifications – Magnetic measuring scale PMIB3

		Order options	
Magnetic period	2 mm	1	20
	5 mm		50
Solid measure	Plastic bonded flexible permanent magnet (elastomer)		
Base material	Stainless steel CrNi 17 7		
Mounting / scope of supply	Version N: adhesive taping, with reference marks, with adhesive tape	2	N
Measurement range	e.g. 100, 500, 1000 ... 30000 mm, up to 50 m on request; further measurement ranges must be divisible by 4 (magnetic period 2 mm) or by 10 (magnetic period 5 mm) resp.	3	100 ... 30000
Linearity at 25°C	up to 30 m: ±40 µm/m up to 50 m: ±80 µm/m		
Reference marks / end position marks (optional)	R1= reference mark on the left	4	R1
	R2= reference mark on the right (additional reference marks on request)		R2
	E1= end position mark on the left		E1
	E2= end position mark on the right		E2
Linear thermal expansion coefficient	17 x 10 ⁻⁶ / K		
Operating temperature	-40 ...+100°C		

Order code

PMIB3	–	1	–	2	–	3	–	4
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Order example: PMIB3 – 50 – N – 1500 – R1



PMIB3 - Magnetic measuring scale for mounting on profile

Specifications – Magnetic measuring scale PMIB3 in flat profile or high profile

		Order options	
Magnetic period	2 mm	1	20
	5 mm		50
Solid measure	Plastic bonded flexible permanent magnet (elastomer)		
Base material	Stainless steel CrNi 17 7		
Mounting / scope of supply	Version M: mounted on flat profile or high profile, available up to 2800 mm max.	2	M
	Version S: scope of supply as for version M, but not mounted		S
Measurement range	Version M: e.g. 100, 500, 1000 ... 2800 mm	3	100 ... 2800
	Version S: e.g. 100, 500, 1000 ... 30000 mm (up to 50 m on request) Further measurement ranges must be divisible by 4 (magnetic period 2 mm) or by 10 (magnetic period 5 mm) resp.		100 ... 30000
Linearity at 25°C	up to 30 m: ±40 µm/m up to 50 m: ±80 µm/m		
Reference marks / end position marks (optional)	R1= reference mark on the left	4	R1
	R2= reference mark on the right (additional reference marks on request)		R2
	E1= end position mark on the left		E1
	E2= end position mark on the right		E2
Profile	Magnetic scale in flat profile	5	FP
	Magnetic scale in high profile		HP
Masking tape (optional)	Stainless steel (non magnetic)	6	AB
Linear thermal expansion coefficient	17 x 10 ⁻⁶ / K		
Operating temperature	-40 ...+100°C		

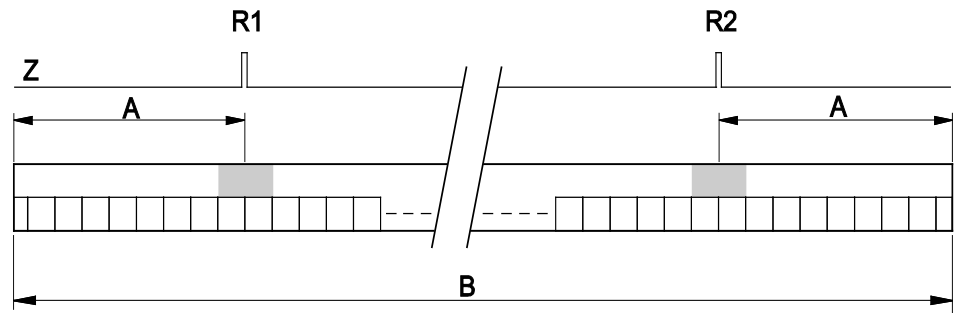
Order code

PMIB3	–	1	–	2	–	3	–	4	–	5	–	6
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Order example: PMIB3 – 50 – M – 1500 – R1 – HP – AB

Order example: PMIB3 – 50 – S – 4000 – R1 – FP – AB

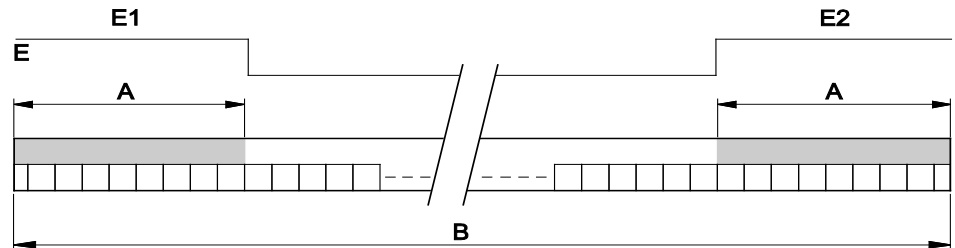
Position of the reference marks



Reference mark dimensions

Magnetic period	Switching position A	Total length B
2 mm	20.0 ± 1 mm	measurement range + 40 mm
5 mm		
2 mm with high profile	60.0 ± 1 mm	measurement range + 120 mm
5 mm with high profile		

Position of the end position marks



End position mark dimensions

Magnetic period	Switching position A	Total length B
2 mm	21.0 ± 1 mm	measurement range + 50 mm
5 mm	22.5 ± 1 mm	measurement range + 50 mm
2 mm with high profile	61.0 ± 1 mm	measurement range + 130 mm
5 mm with high profile	62.5 ± 1 mm	measurement range + 130 mm

Accessories

Masking tape PMAB

Masking tape made of stainless steel for posimag®
magnetic scale PMIB3, width 10 mm, thickness 0.2 mm

Order code

PMAB

-

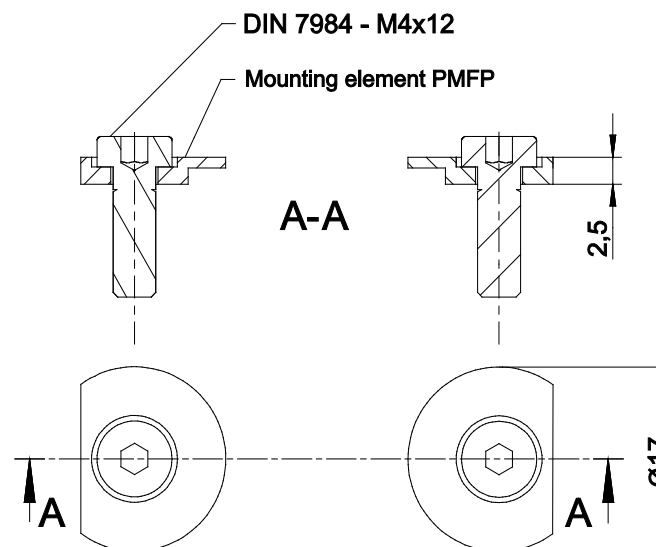
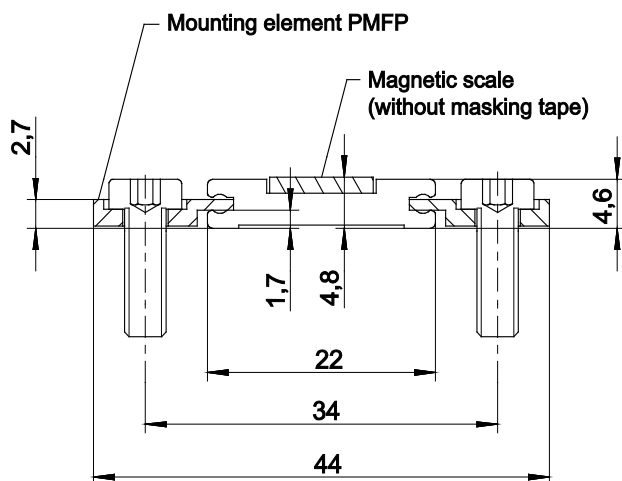
10MM

-

Length in mm

Flat profile PMFP

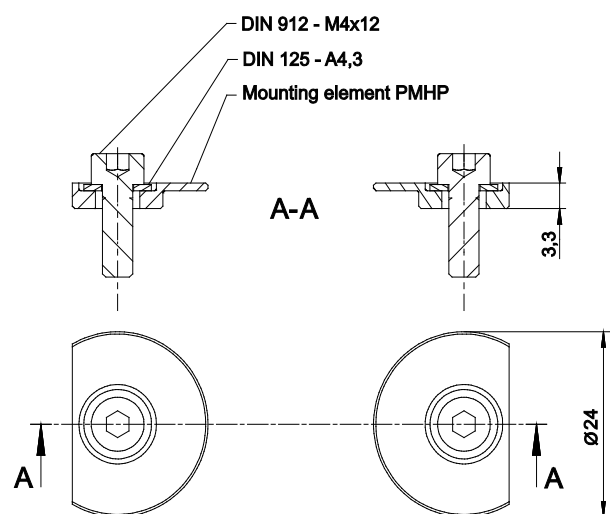
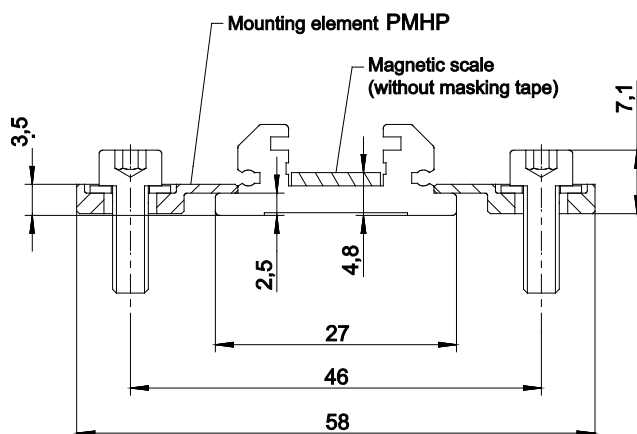
PMFP-BFS1



Mounting element PMFP-BFS1

High profile PMHP

PMHP-BFS1



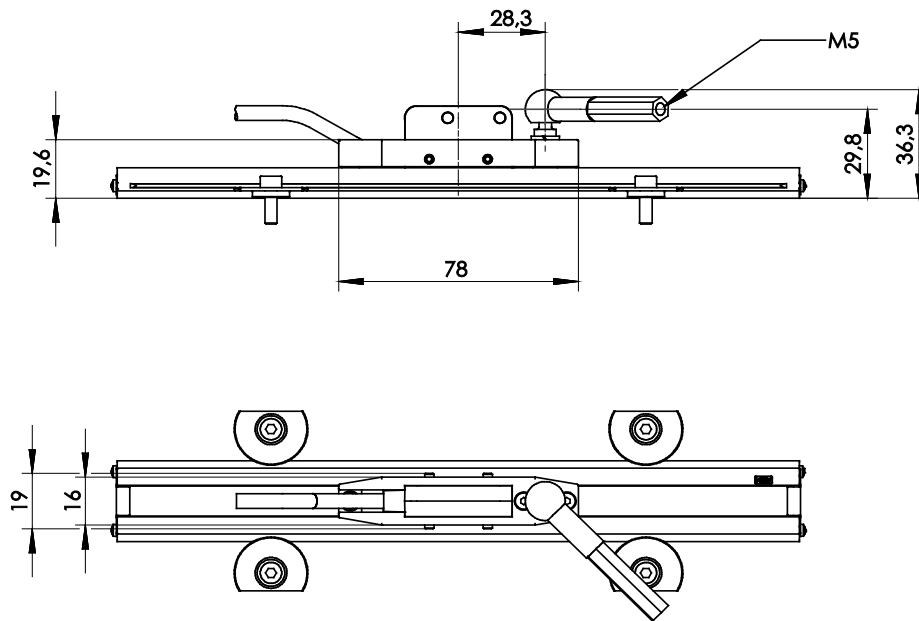
Mounting element PMHP-BFS1

Dimensions in mm [inch].

Dimensions informative only.

For guaranteed dimensions consult factory.

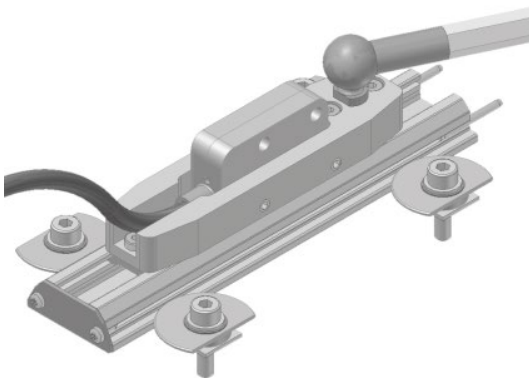
Slider for high profile PMGW3



Dimensions in mm [inch].

Dimensions informative only.

For guaranteed dimensions consult factory.



Chemical durability – Elastomer magnetic scales (PMIB3)

no / little influence	weak / middle influence	strong influence
motor oils	JP-4 fuel (Jet fuel)	aromatic hydrocarbon (benzene, toluene, xylene)
gear oils	gasoline/petrol	ketone
ATF (automatic transmission fluid)	heptane	anorganic acids (HCl, H2SO4)
hydraulic fluid	alcohol	
kerosene		
antifreeze agent		
purifying agent		
turpentine		
water		
sea water/salt water		