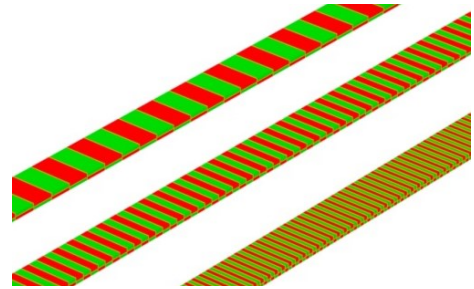


Datasheet

- Insensitive to oil, humidity, dust and shavings
- Wear free
- Very precise
- Cost-effective solution
- Variable lengths
- Easy mounting
(easy mounting with already attached double sided adhesive tape)



Mechanical Data

Dimensions			
Width	magnetic scale	10 mm +0,2	
Thickness	magnetic scale	1,55 mm ±0,1 (without adhesive tape: 1,35 mm -0,05 +0,075)	
	cover tape	DB01: 0,15 mm / DB22: 0,15 mm / DB50: 0,25 mm	
Length		ca. < 48 m	
Material	magnetic scale	plastic with Barium-Strontium particles; stainless steel	
	cover tape		
	rail		
Weight	magnetic scale	70 g/m	
	cover tape	25 g/m	
Pole Pitch [mm]		1+1	2+2
Accuracy (refers to length 1m)		3; 5; 8; 10; 18 µm	30; 15; 10; 8 µm
Bending radius		Min. 120 mm	
Cover Tape		DB01 / DB22	
Reference Point		on specification	
Operating Temperature		-20 °C to +80 °C	
Temperature Coefficient		11± µm/K	
Magnetic Remanence		> 240 mT	
Flux density		≥ 40 mT	
External magnetic fields		Max. 30 mT (no damage)	
External magnetic fields - in operation		Max. 1 mT (no effect)	
IP-Rating		IP67	
Accessories			
Rail		PS1, PS5, PS6, SB	

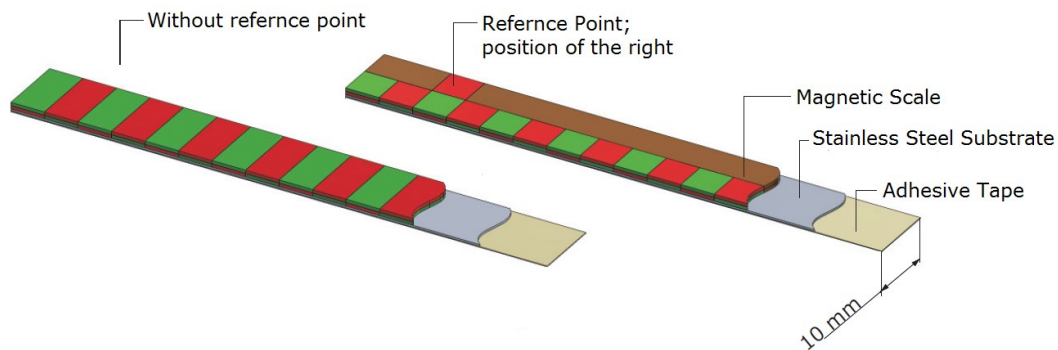
Application examples

vertical montage with Rail PS1	montage with rail PS6 and cover tape DB22	montage with rail SB

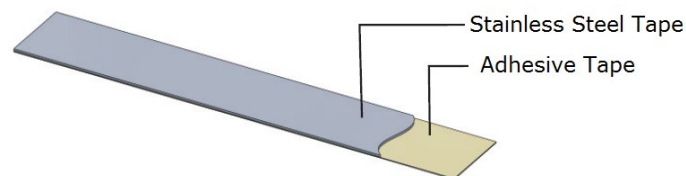
Datasheet

Dimensions

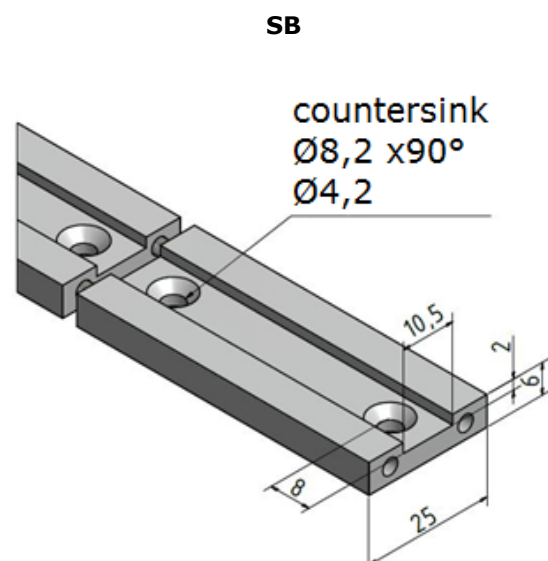
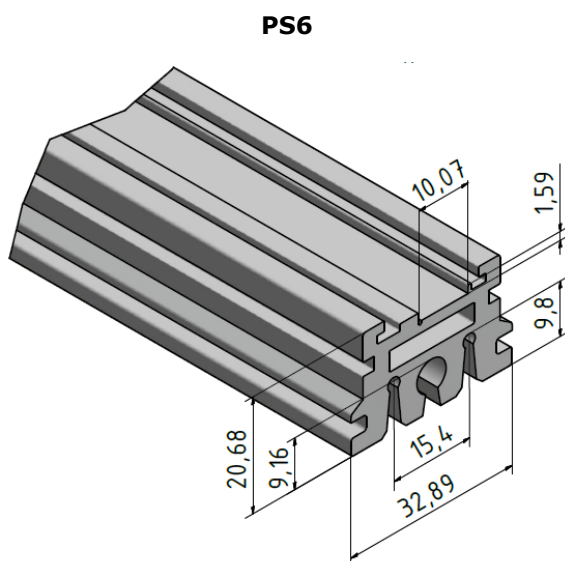
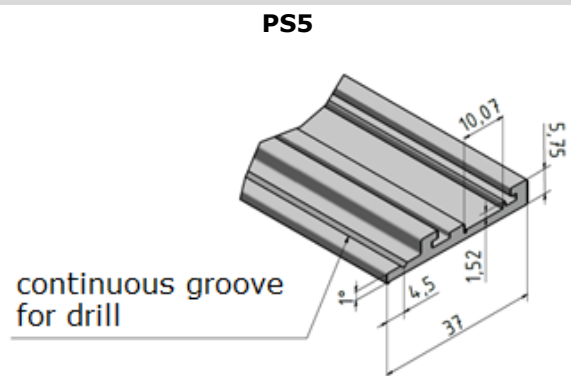
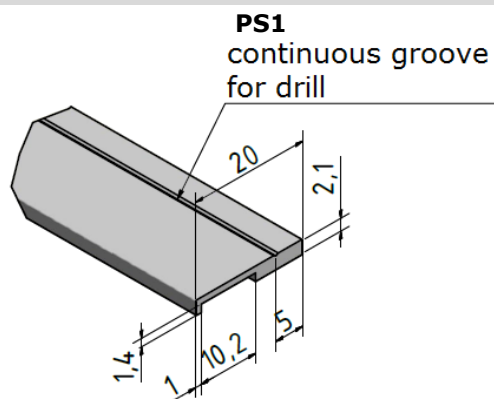
Magnetic Scale



Cover Tape



Rail





Datasheet

Ordering Example

Magnetic Scale

Type	PM1	-	18	-	1000	-	0	-	DB01
Pole Pitch [mm]	1; 2; 5								
Accuracy	3 = 3 µm (max. 1000 mm) 5 = 5 µm 8 = 8 µm 10 = 10 µm 15 = 15 µm 18 = 18 µm 30 = 30 µm 36 = 36 µm 40 = 40 µm								
Measuring Length	The entered amount should be on each side 40 mm longer than the desired measuring length Length in mm for PM1; PM2 Length in m for PM5								
Reference Point [mm]	0 = without S50 = fix; Specifying position of the right SA50 = periodically; Specifying position of the right								
Cover Tape	0 = without DB01 = for PM1 and PM2 DB50 = for PM5 DB22 = with Rail PS5; PS6								

Rail

Type	PS1	-	1,0
PS1	= Pole Pitch > 5+5 mm		
PS5	= incl. cover tape DB22		
PS6	= incl. cover tape DB22		
SB	=		
Measuring Length [m]			

Cover Tape (for a later ordering)

Type	DB01	-	1,0
DB01	= for PM1 and PM2		
DB22	= for PS5 and PS6		
DB50	= for PM5		
Measuring Length [m]			