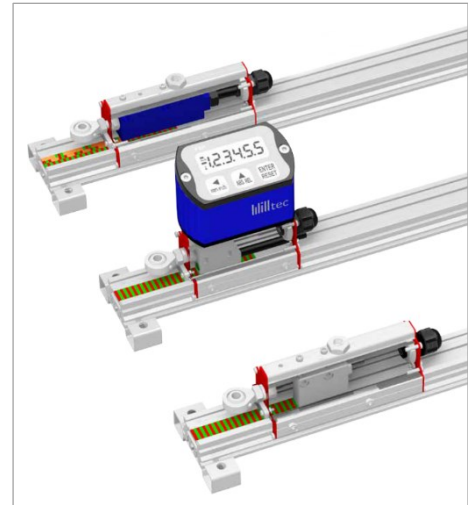


Datasheet

General features

- Guided systems for contactless linear distance measurement
- Optionally available as incremental, absolute, and quasi-absolute (with display) measuring system
- Guide carriage with mounted magnetic sensor
- Various lengths available
- Resolutions up to 0.001 mm



Technical characteristics

Guide carriage	
Dimensions (see dimensional drawing) Length [FL]	77 mm with display 107 mm without display
Material	Aluminium, anodized
Connection	Ball joint (see figure)

Type of magnetic measuring system	incremental, absolute, or quasi-absolute
Display	F8P ¹⁾ (quasi-absolute only)
Version	DA = Direct display in the mounting housing FA = Remote display in mounting housing FE = Remote display in installation housing
Resolution	programmable (quasi-absolute only)
Supply power	battery-powered (quasi-absolute only)
Magnetic scale	PM5 ¹⁾
Cable length	2, 5, 10 m (other lengths on request)

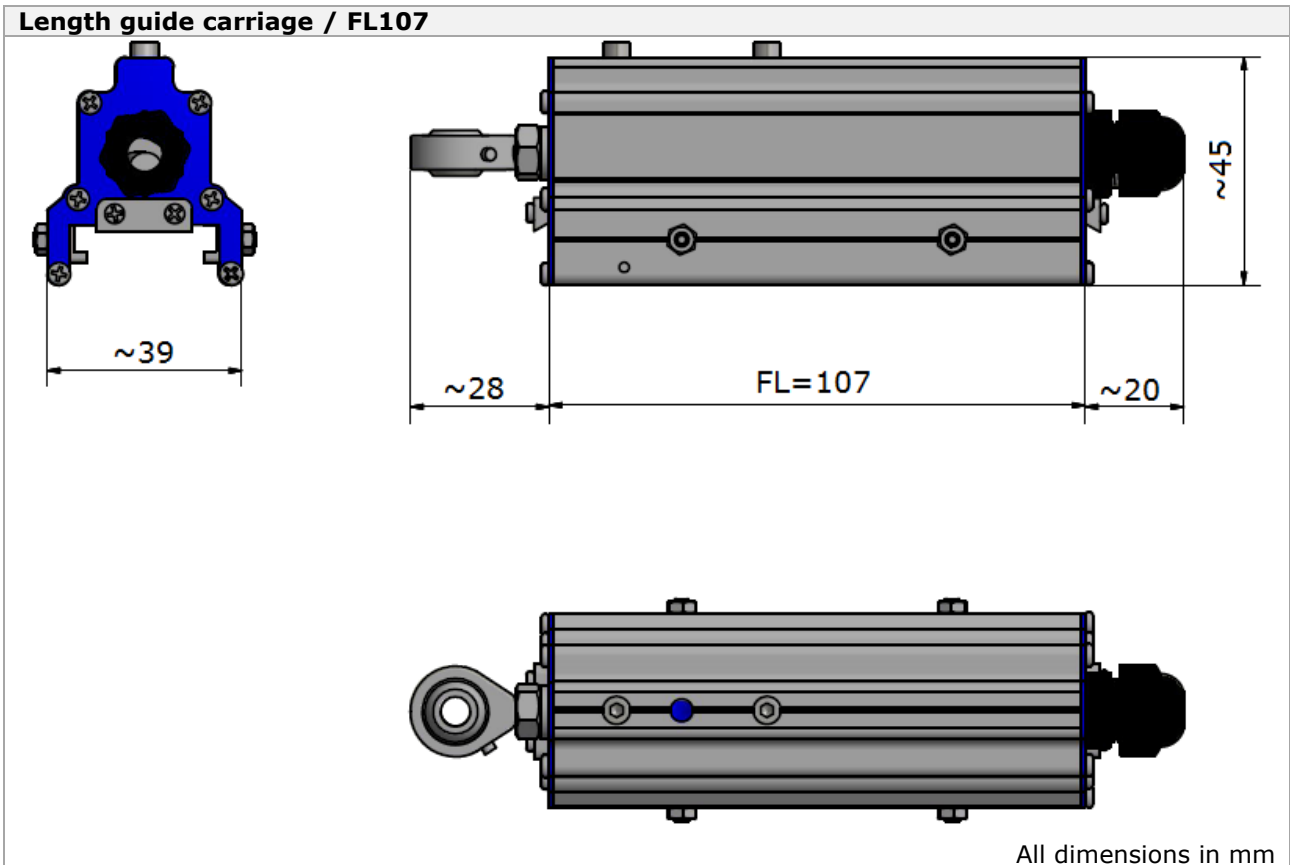
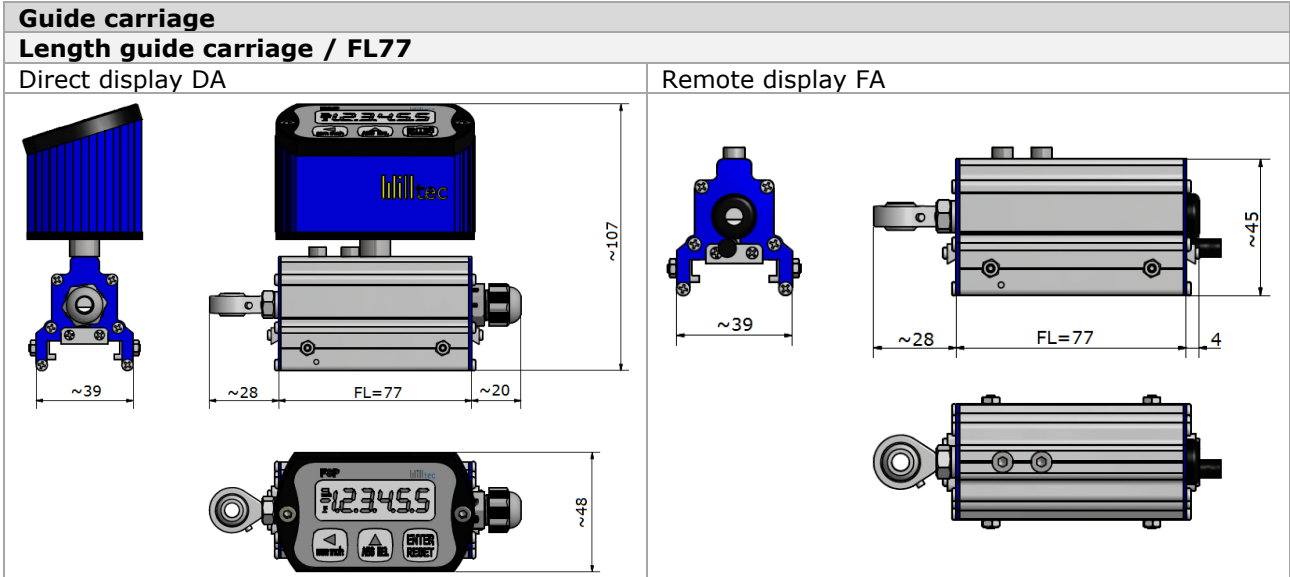
Measuring system	quasi-absolute	incremental	absolute
With display	F8P ¹⁾		
Without display		LHR5 ¹⁾	AMS2 ¹⁾
Electronic interface		5 VDC - TTL	24 VDC - SSI
Resolution	programmable	0,1; 0,01; 0,005 µm	0,1; 0,01; 0,001 µm
Supply power	battery-powered	5 VDC	24 VDC
Magnetic scale	PM5 ¹⁾	PM5 ¹⁾	MBA2 ¹⁾
Cable length		2, 5, 10 m (other lengths on request)	
Electrical connection		M12-connector, 12-pole, or open cable end	

¹⁾ For further information, please refer to the corresponding data sheet.

Profile rail	
Dimensions (see dimensional drawing) Nominal length of profile rail [NL] Length of cover tape	NL divided in <1 m pieces undivided nominal length
Material	Aluminium, anodized
Standard package	1x 1 m piece, 2x fixing clamp, 2x cover cap
Extension package (per meter)	1x connection kit, 2x fixing clamp
Operating temperature	-20 °C ... +80 °C
Storage temperature	-30 °C ... +90 °C

Datasheet

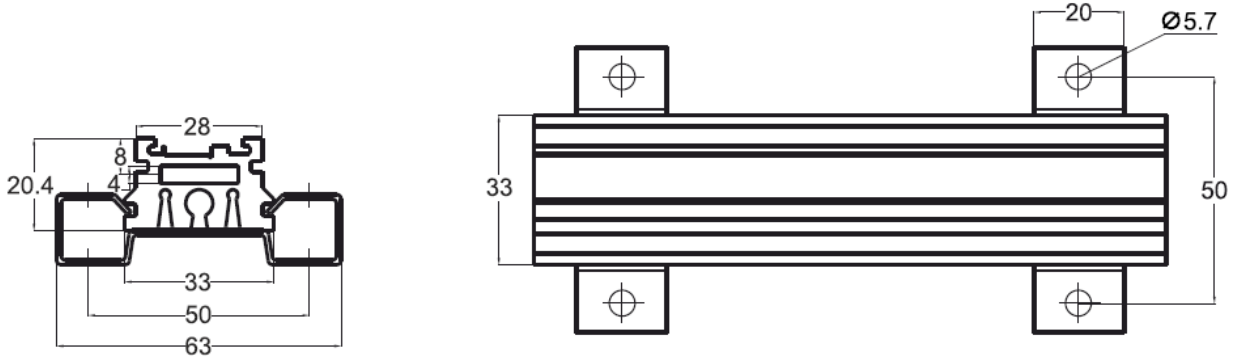
Dimensions



Datasheet

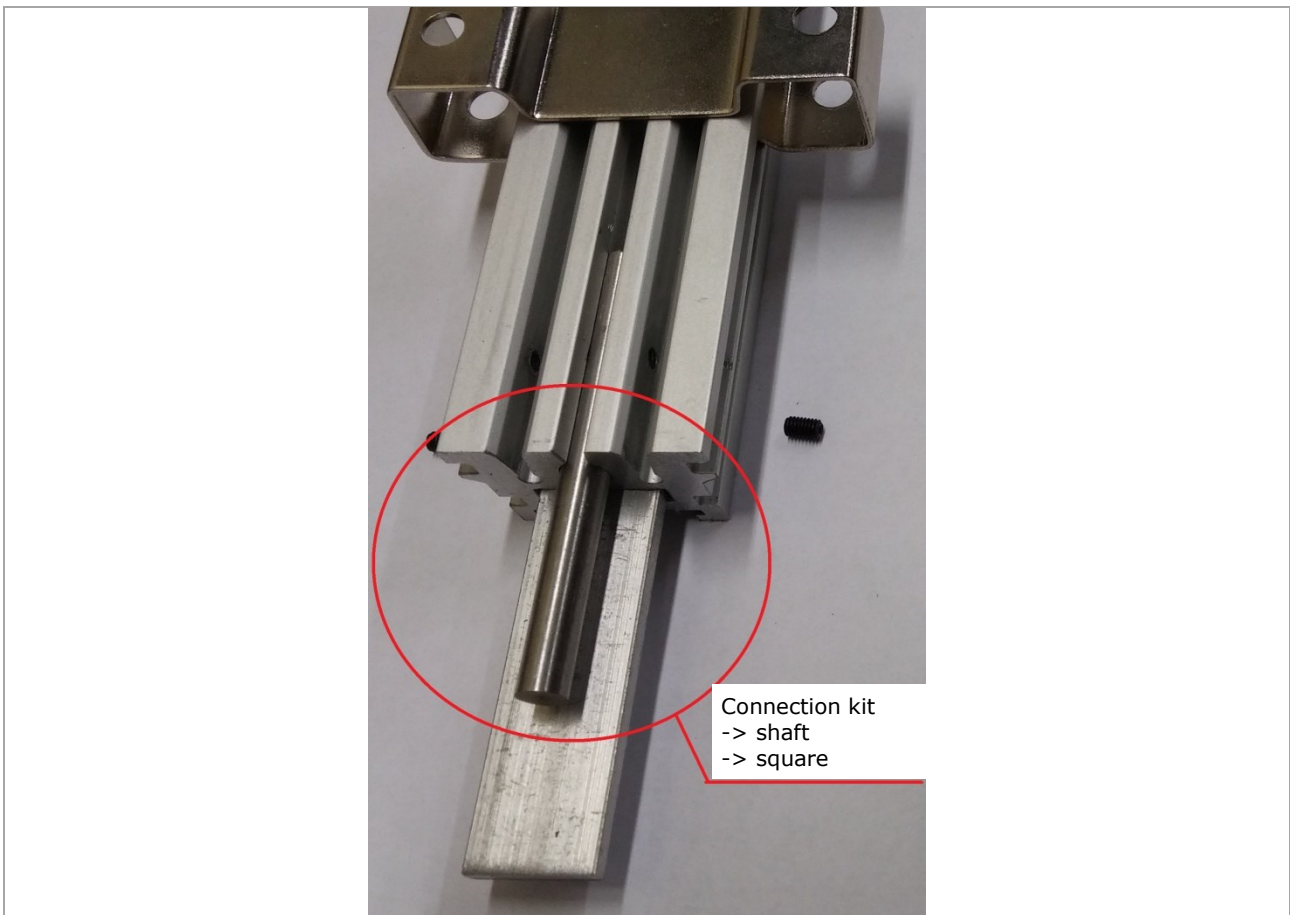


Profile rail Length guide carriage / FL107



All dimensions in mm

Extension package



Datasheet

Ordering example

Type	PS6	-	1.0	-	F8P/DA	-	P	-	X	-	
Nominal length ¹⁾											
NL = ML+FL in meters											
Measuring system											
<u>With display – FL77</u>											
F8P/DA	= F8P / Direct display in the mounting										
F8P/FA	= F8P / Remote display in mounting housing										
F8P/FE	= F8P / Remote display in installation housing										
<u>Without display – FL105</u>											
LHR5											
AMS2											
Resolution ²⁾											
P	= programmable, only F8P										
0.1	= 0,1 (standard LHR5)										
0.01	= 0,01 (standard AMS2)										
0.001	= 0,001										
0.005	= 0,005										
Cable length ²⁾											
X	= only F8P/DA										
2.0	= 2,0 m										
5.0	= 5,0 m										
10.0	= 10,0 m										
Electrical connection (without display)											
X	= open cable end										
M12	= M12-connector (plug), 12-pole										

Extension package Profile rail (in case of a subsequent order)

Type	PS6	-	1.0
Nominal length ¹⁾			
NL = ML+FL			

Magnetic scale (in case of a subsequent order)

Type - Incremental	PM5	-	18	-	1.0	-	0	-	DB20
Nominal length									
in meters									
Type - Absolute	MBA2	-	20	-	1.0	-	DB20		
Nominal length									
in meters									

- ¹⁾ The nominal length / total length is assembled from < 1 m pieces
- ²⁾ Others on request

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.