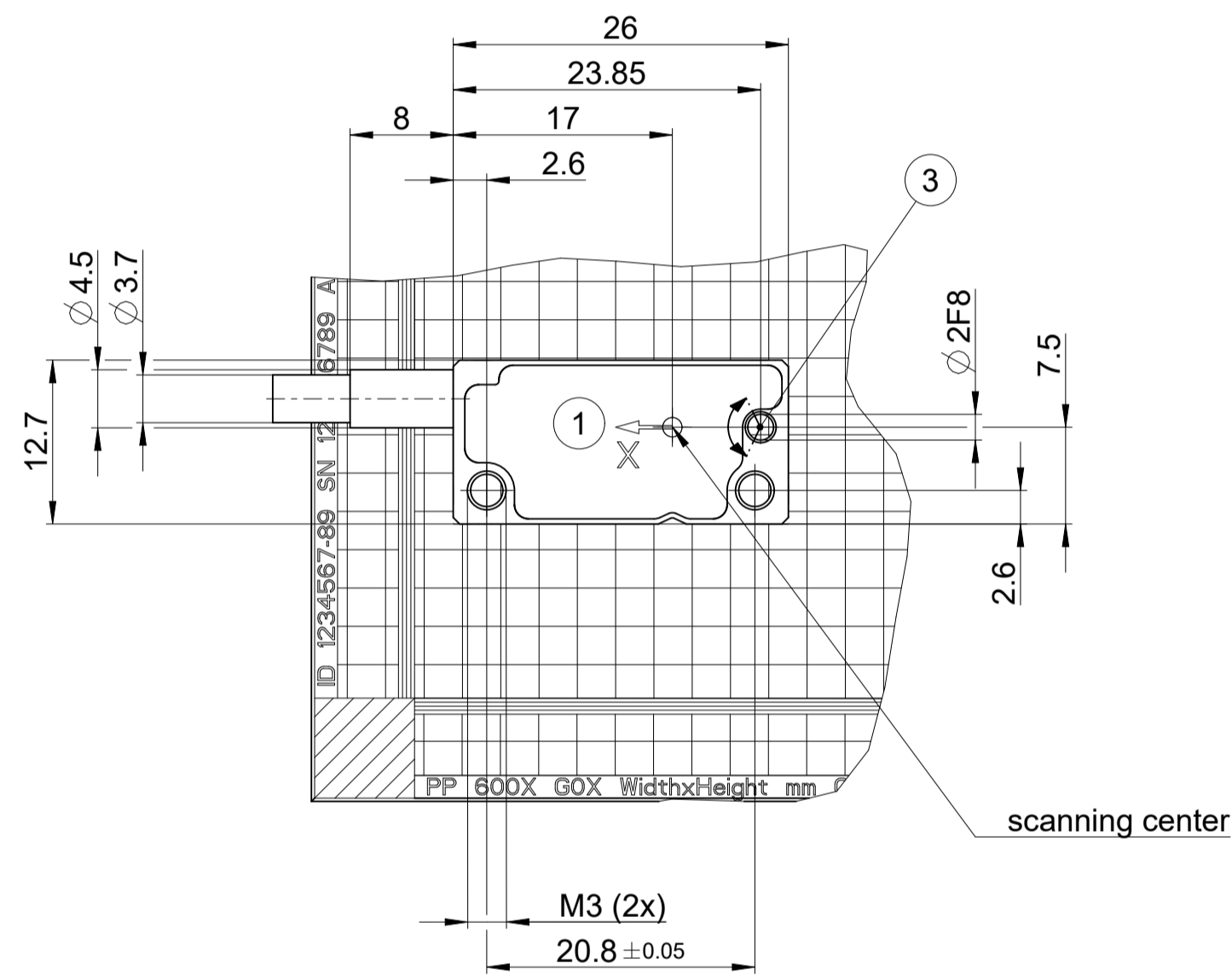
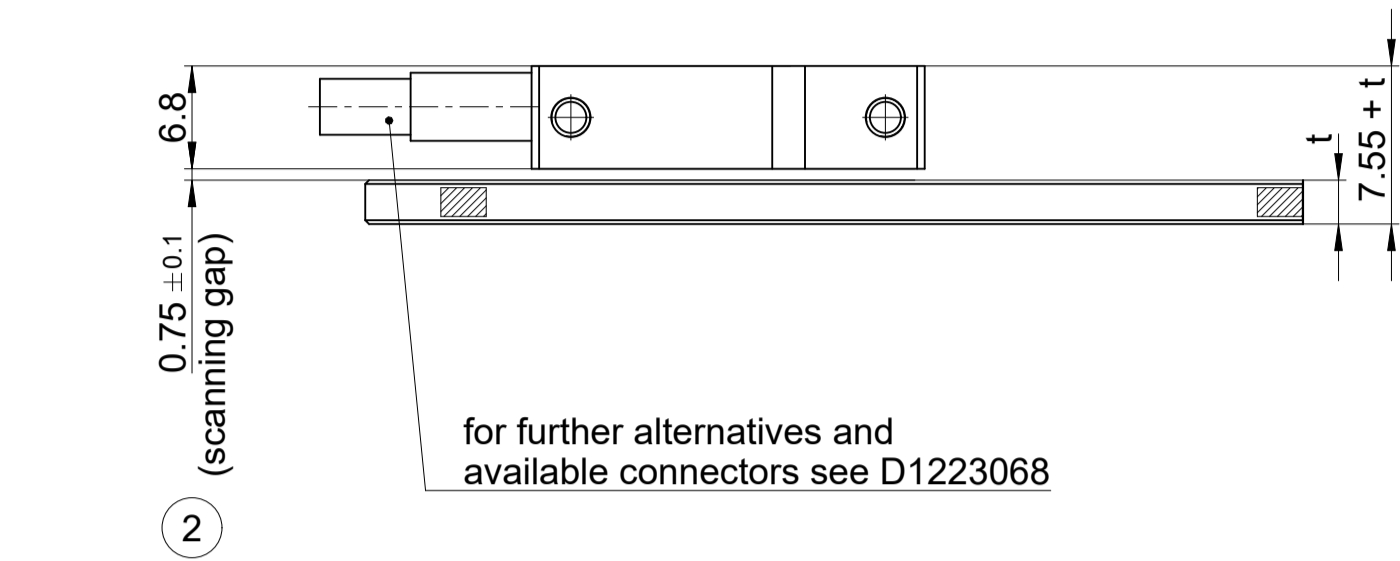


Measurement-system dimensions

Arrangements can vary according to individual requirements, therefore, dimensions are only shown for one single head encoder on the example of a 2.9 mm thick grid plate.



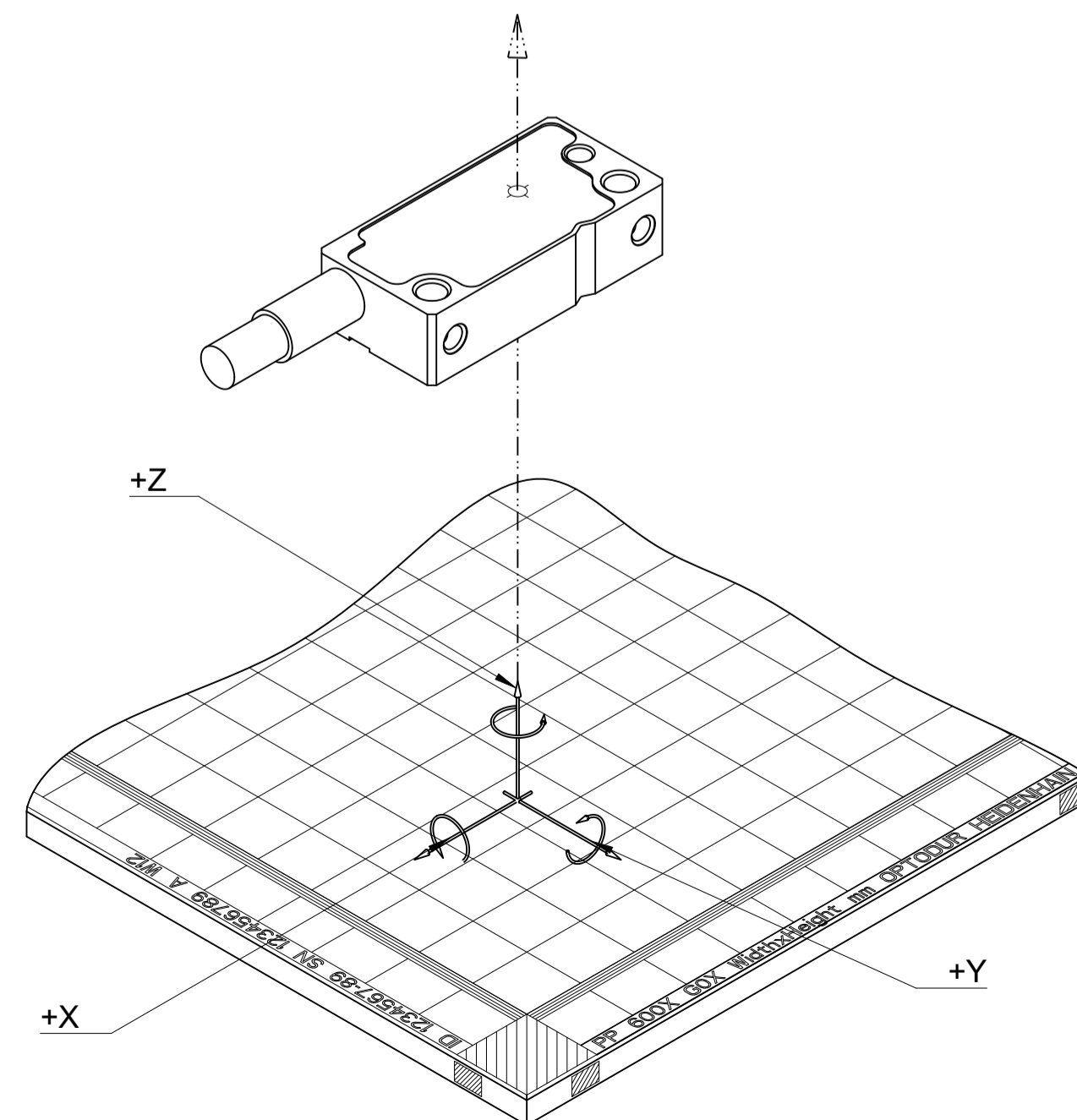
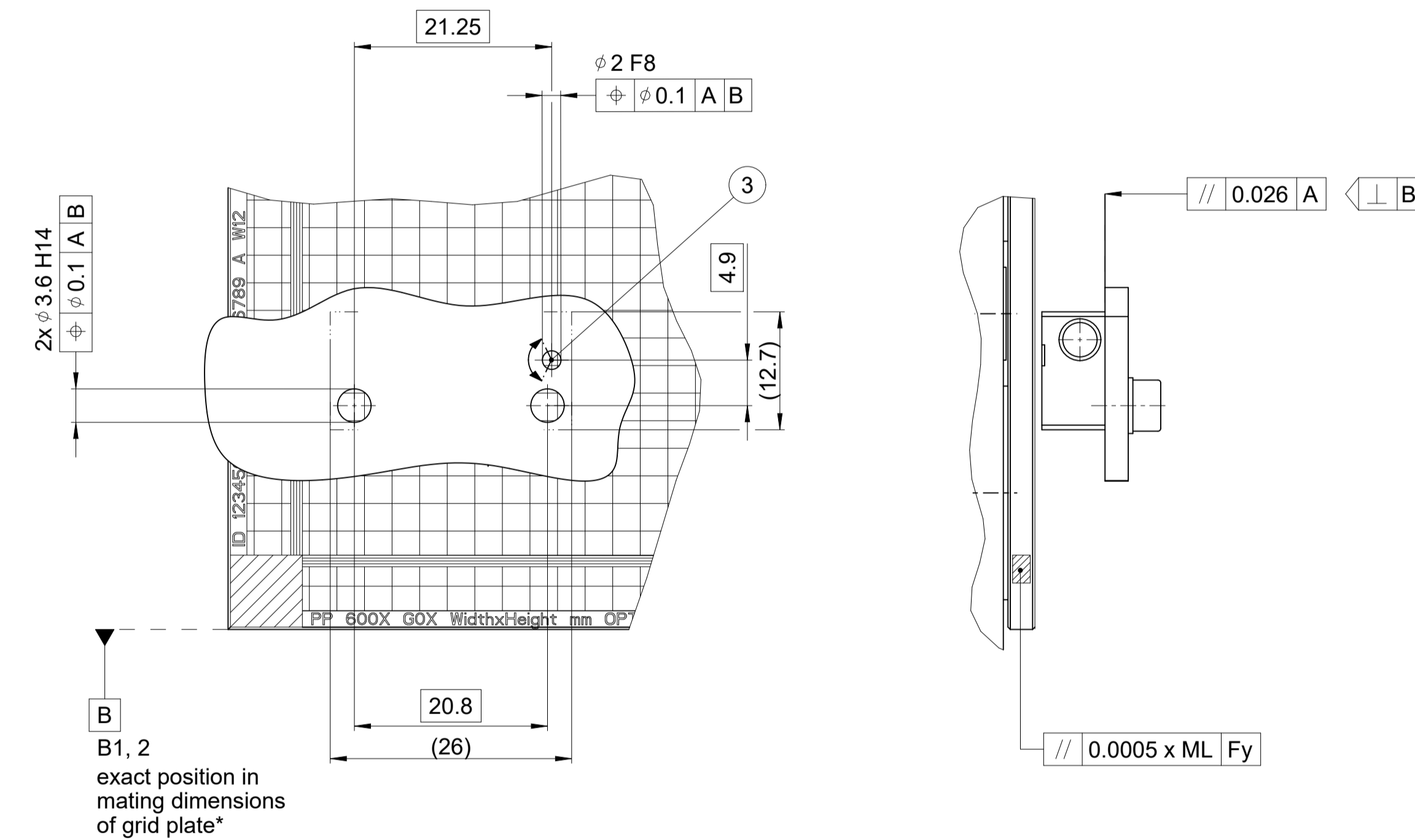
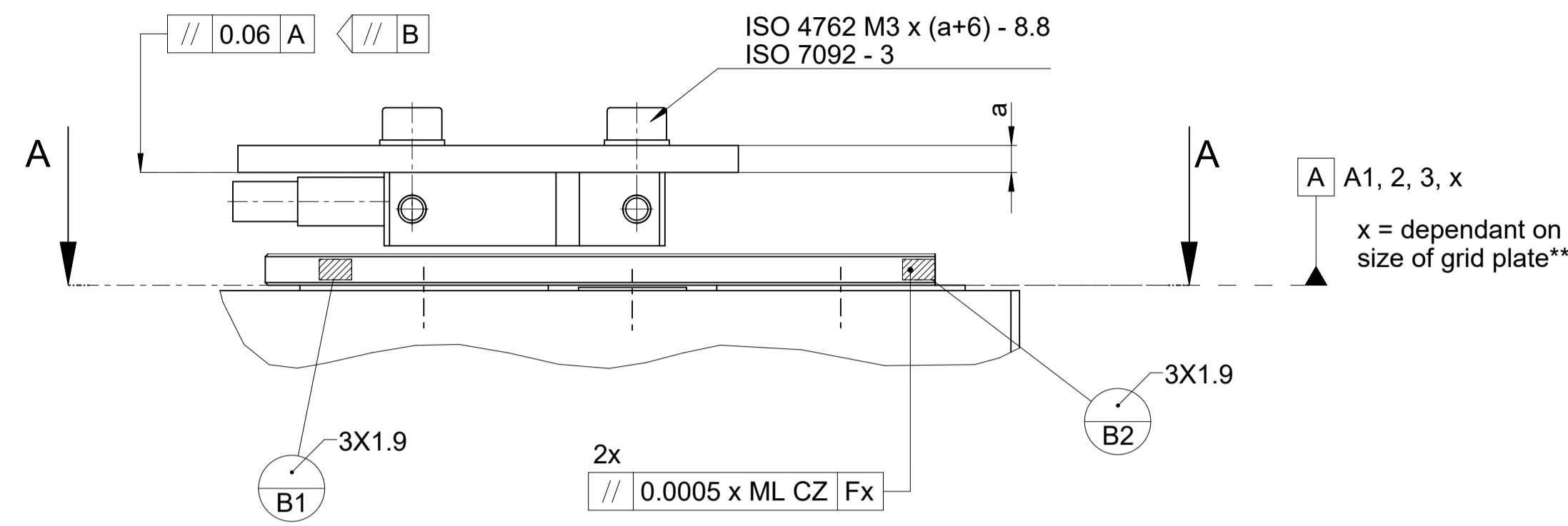
Fx = Machine guideway in X-direction
 Fy = Machine guideway in Y-direction
 ML = Measurement length

- t = Thickness of grid plate*
- ① = Direction of motion of the scanning unit for ascending values
- ② = Adjustment of scanning gap
- ③ = Moiré adjustment: alignment pin Ø2m6

*Dimensions of grid plate: D1411216

Required mating dimensions

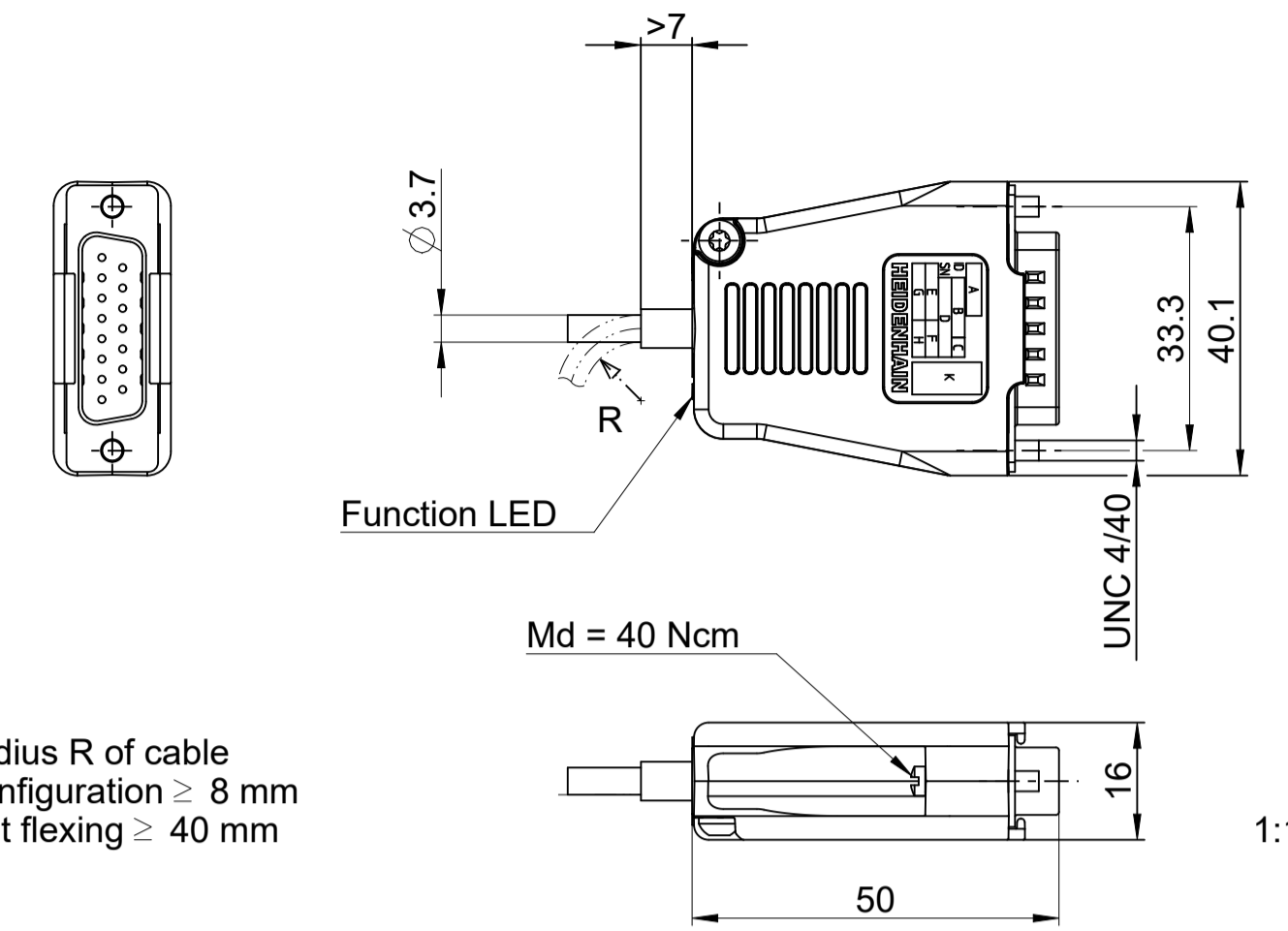
Mating dimensions are valid for each single head encoder and are shown on the example of an encoder measuring in X-direction.



The values for maximum change during operation were determined by using the designated coordinate system, which is located on top of the grid plate.

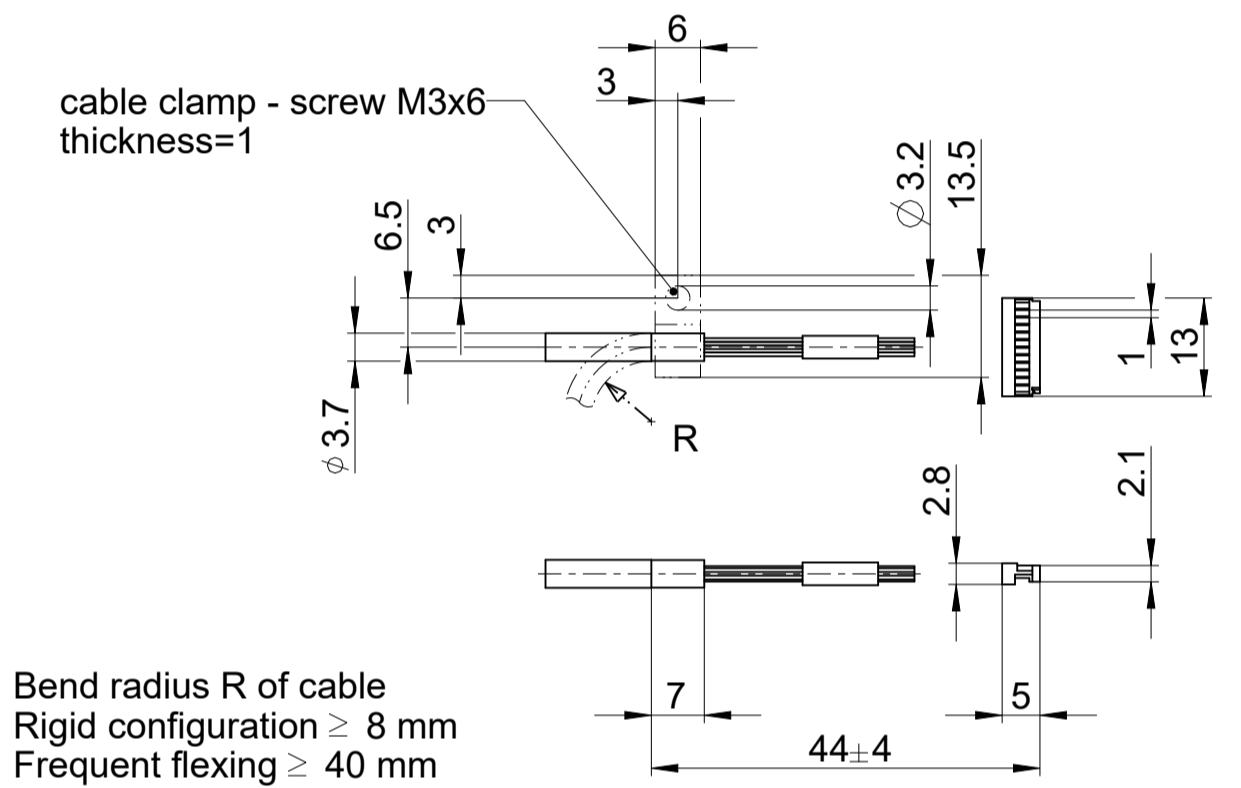
Dimension	Incremental track	Reference mark
Z	±0.2 mm	±0.1 mm
Rx	±5 mrad	±2 mrad
Ry	±5 mrad	±2 mrad
Rz	±2 mrad	±0.4 mrad

15-pin D-sub



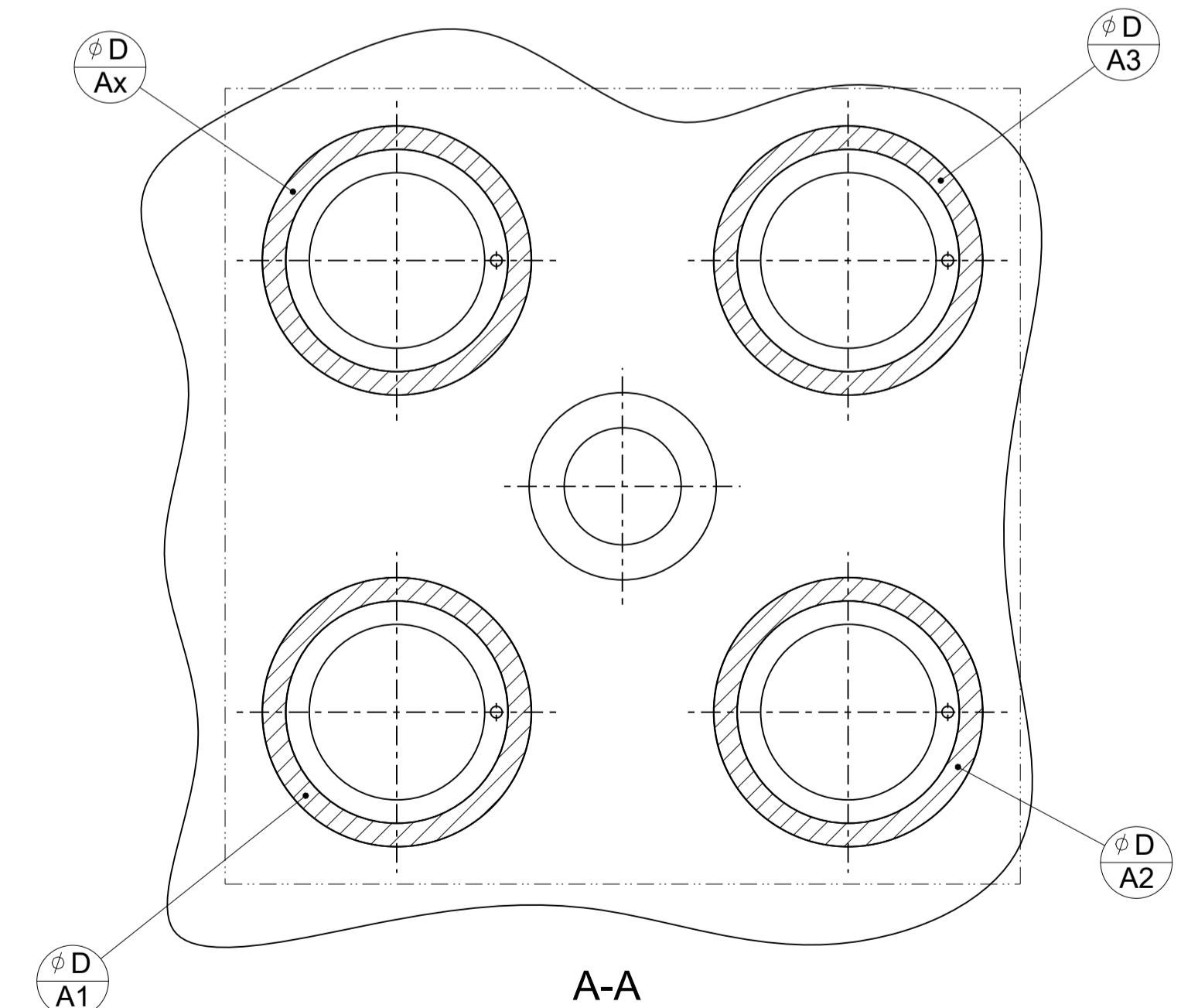
Bend radius R of cable
 Rigid configuration ≥ 8 mm
 Frequent flexing ≥ 40 mm

JST connector 12 pins



Bend radius R of cable
 Rigid configuration ≥ 8 mm
 Frequent flexing ≥ 40 mm

Grid plate interface



Ax=Number of contact surfaces and therefore reference points of the grid plate in dependence on its size

**Interface drawing for individual grid plate size: D1459013 Bonding Manual: D1452567

Original drawing		AK PP 608 AMZ		ID number:	C156607-80
Scale		PP 608 AMZ		Change No.	Series
Format		Anschlussmaße / Mating Dimensions		Tolerances as per ISO 8015	
Dimensions in mm	2:1 A1			General Tolerances ISO 2768-1:2008-mH ±0.2	
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