

## Determining the mounting height using SAHL 2

The mounting height of the DSS sensors must be measured as follows to determine the final position (top or bottom hole mounting position):

- Measure the mounting height of the DSS with SAHL 2 when mounting directly to the rail or, on the SSK 6, predetermine the mounting height with the SAHL 2.

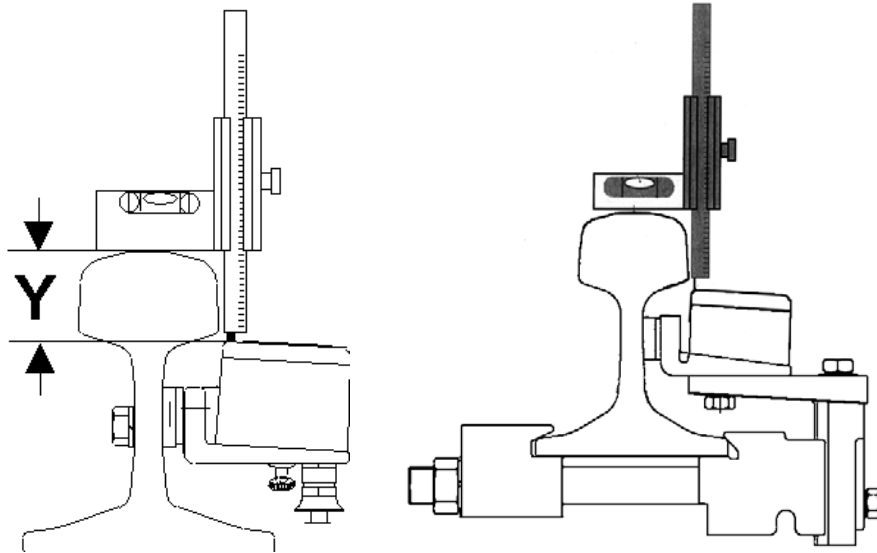


Fig. 1 Checking the mounting height of the DSS sensor with SAHL 2

On new rails without wear, the mounting height  $-Y-$  is 45 mm below the rail top edge. The only exception is the DSS type **401** where the casing is 3 mm higher  $\rightarrow$  42 mm from the rail top edge. Allowable mounting height and position is determined by section 8 in conjunction with section 6 of table 1.

When using the SSK 6, in case of worn rails (not new), set the height  $-Y-$  with SAHL 2 (see 0) which calculates as the difference of 45mm - measured feeler dimension  $-X-$ . The dimension  $-X-$  should be measured with a big sliding calliper.

- Adjust SAHL 2 to  $-Y-$ , put it onto the rail and adopt the rail inclination with the bubble side flat on the rail head surface. Do not worry if the bubble itself is not in the middle.
- Push the sensor up to the SAHL 2 until it starts to make contact; then, fasten the sensor via the SSK6 claw. If necessary, loosen the sensor at the lateral position once more so that the plastic spacer plates make complete contact with the rail stem (due to the stem bulge).

Avoid altering the position of the sensor when tightening the SSK 6 screws. If the position is altered, measure and adjust once more. Do not mount the wheel sensor in an area of the rail which has raised letters unless you grind these letters down flush with the web of the rail.

Table 1: Overview of the mounting dimensions for the DSS sensor

1	2	3		4	5		6	7			8
Identify	Read	Adapt		Measure	Remeasure		Determine	Add			Remeasure
Rail profile	Height	BVR17	LD-1P	Height	SBKL1	SAHL1	DSS mounting position	Spacer plates, also see <b>Error!</b> Reference source not found.			SAHL2
New rail	H [mm]	Stop triangles [mm]	Base plate + jaw profiles	X [mm]	C [mm]	B [mm]		MP A	MP B	[mm]	Y [mm]
USA / CANADA	ASCE 60	107.95	41.46	> 99.95 ≤ 99.95	61.46	> 79 ≤ 79	bottom holes top holes				> 37 ≤ 37
	ASCE 75	122.24	36.44	> 114.24 ≤ 114.24	56.44	> 79 ≤ 79	bottom holes top holes				> 37 ≤ 37
	ASCE 80	127.00	34.51	> 119 ≤ 119	54.51	> 79 ≤ 79	bottom holes top holes			without not possible	> 37 ≤ 37
	ARA A 90	142.88	35.85	> 134.88 ≤ 134.88	55.85	> 79 ≤ 79	bottom holes top holes			without not possible	> 37 ≤ 37
	ARA B 100	143.27	29.39	> 135.27 ≤ 135.27	49.39	> 79 ≤ 79	bottom holes top holes			not possible	> 37 ≤ 37
	ASCE 100	146.00	29.39	> 138 ≤ 138	49.39	> 79 ≤ 79	bottom holes top holes			not possible	> 37 ≤ 37
	AREA 100 = 100RE	152.40	31.10	> 144.4 ≤ 144.4	51.10	> 79 ≤ 79	bottom holes top holes		blue	1.5 not possible	> 37 ≤ 37
USA / CANADA	AREA 112 = 112RE	168.28	30.40	> 160.3 ≤ 160.3	50.40	> 79 ≤ 79	bottom holes top holes			without without	> 37 ≤ 37
	AREA 115 = 115RE	168.28	30.50	> 160.3 ≤ 160.3	50.50	> 79 ≤ 79	bottom holes top holes			without without	> 37 ≤ 37
	AREA 119 = 119RE	173.00	25.73	> 165 ≤ 165	45.73	> 79 ≤ 79	bottom holes top holes		red	1.0 without	> 37 ≤ 37
	CB 122	172.21	27.57	> 164.21 ≤ 164.21	47.57	> 79 ≤ 79	bottom holes top holes			without	> 37 ≤ 37
	AREA 132 = 132RE	180.98	29.01	> 173 ≤ 173	49.01	> 79 ≤ 79	bottom holes top holes		green	3.6 0	> 37 ≤ 37
	AREA 133 = 133RE	179.39	26.70	> 171.4 ≤ 171.4	46.70	> 79 ≤ 79	bottom holes top holes		green	3.6	> 37 ≤ 37
	AREA 136 = 136RE	185.70	24.34	> 177.7 ≤ 177.7	44.34	> 79 ≤ 79	bottom holes top holes	grey	red blue	1.2+4.3=5.5 1.5	> 37 ≤ 37
	AREA 140 = 140RE	185.70	23.80	> 177.7 ≤ 177.7	43.80	> 79 ≤ 79	bottom holes top holes	red	red brown	1.0+4.3=5.3 2	> 37 ≤ 37
AREA 141 = 141RE	188.90	21.16	> 180.9 ≤ 180.9	41.16	> 79 ≤ 79	bottom holes top holes	red	red white	1.0+4.3=5.3 4.3	> 37 ≤ 37	

# SAHL 2

Part-No.: 040728

Shown with plastic leg  
flush with top of rail head  
independent of position of  
the bubble.

This would be how actual  
wheel would set on the  
rail.

