

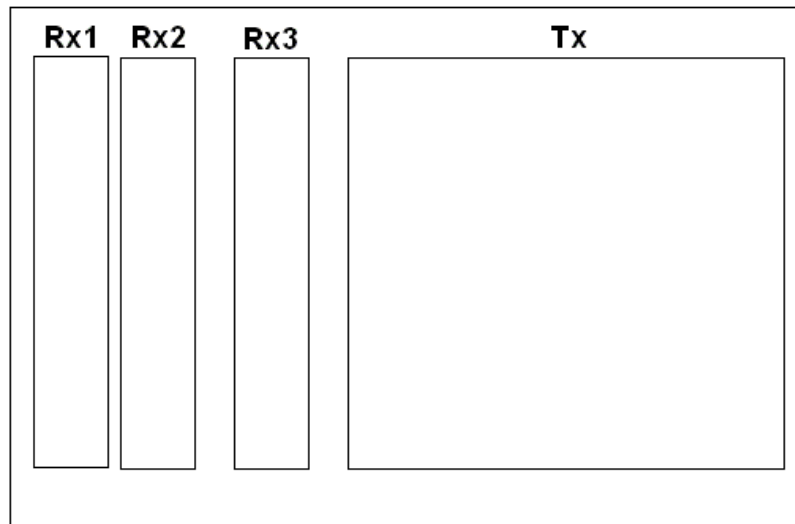
Annex no. 10

Antenna Descriptions

Hella LCA 1.7 SWA SG1 / LCA 1.7 SWA SG2

Antenna short description

The radar sensors LCA and LCA SG1 1.7 1.7 1.7 SWA SWA 1.7 SG2 from the Hella KGaA Hueck & Co. contain in each case one transmitting antenna (Tx) and three receiving antennas (Rx1, 2.3) in the same housing:



Each antenna is realized from an array of individual planar patches. The polarization of each antenna is vertical.

The transmitting antenna in the azimuth direction has the maximum of the gain at about $\phi = 12^\circ$ look angle (see diagram below). In elevation direction, the maximum is at around $\theta = 0^\circ$. The maximum gain of the transmitting antenna is about 15.0 dBi.

