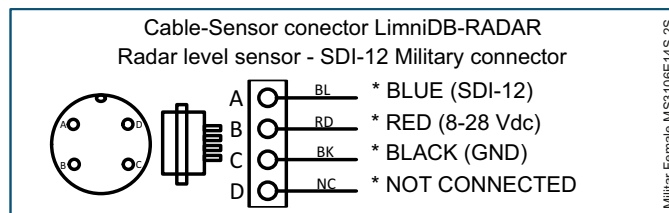
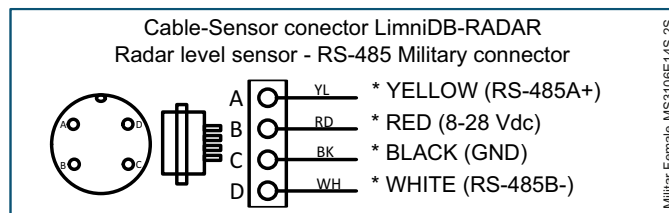
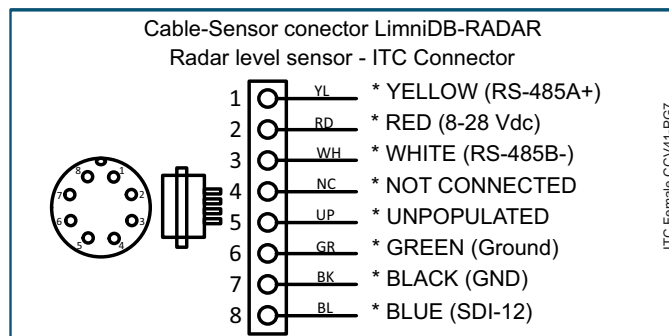


Radar distance sensor (limnimeter)



WIRING DIAGRAM



OPERATION

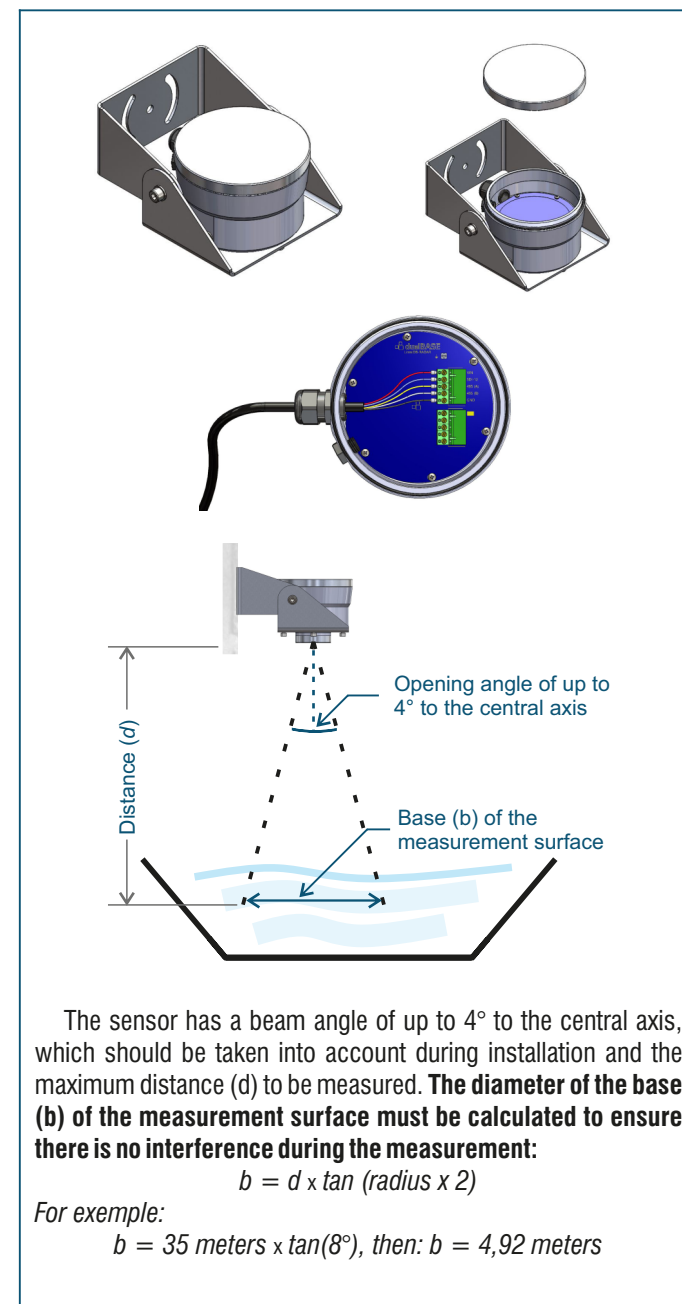
List of common commands via SDI-12	
Command	Function
a!	Acknowledge active
aAb!	Change address (default: 0)
?!	Check address
aM!	Start measurement
aD0!	Send data
aM1!	Additional measurements

Order of information sent via SDI-12		
Order	Variable	Unit*
1st	Distance (level)	cm
2nd	X-axis	Degrees
3rd	Y-axis	Degrees
4th	Internal temperature	°C
5th	Internal humidity	% RH

*Standard unit; Other units available.

Serial interface via RS-485	
Address:	1 (default)
Configuration:	8-N-1
Transmission rate:	9600

MOUNTING



The sensor has a beam angle of up to 4° to the central axis, which should be taken into account during installation and the maximum distance (d) to be measured. **The diameter of the base (b) of the measurement surface must be calculated to ensure there is no interference during the measurement:**

$$b = d \times \tan(\text{radius} \times 2)$$

For exemple:
 $b = 35 \text{ meters} \times \tan(8^\circ)$, then: $b = 4,92 \text{ meters}$