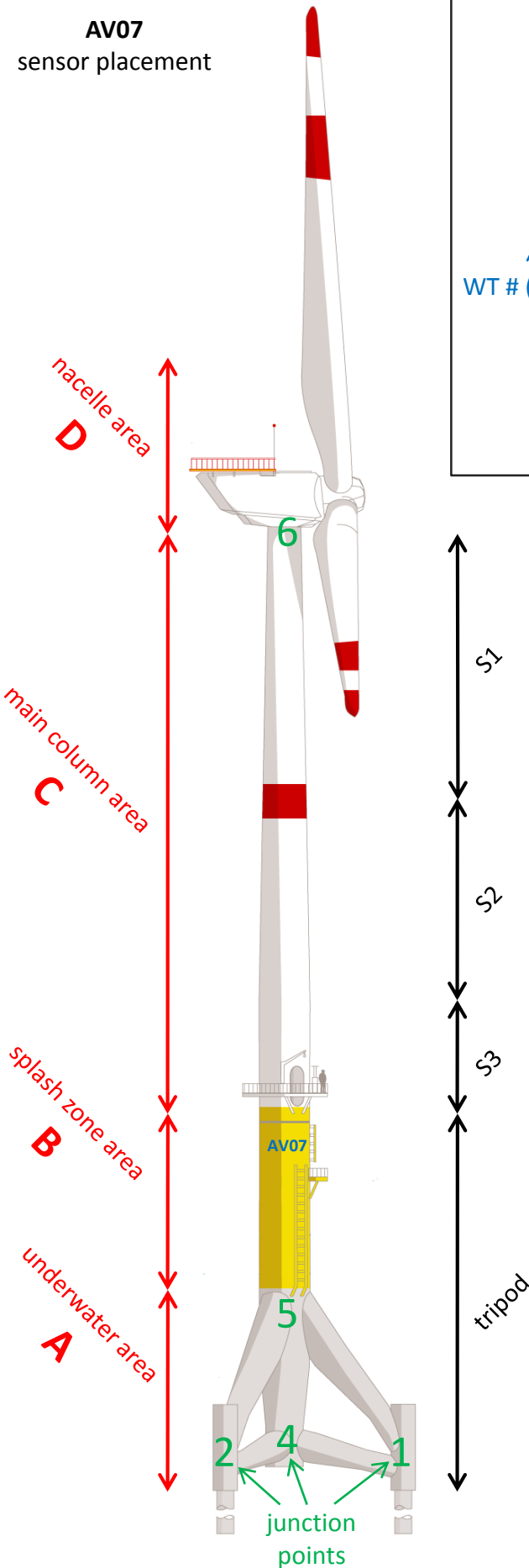
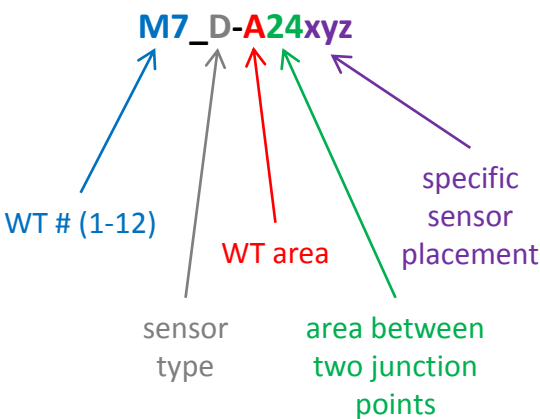


AV07
sensor placement



Example of sensor
naming convention:



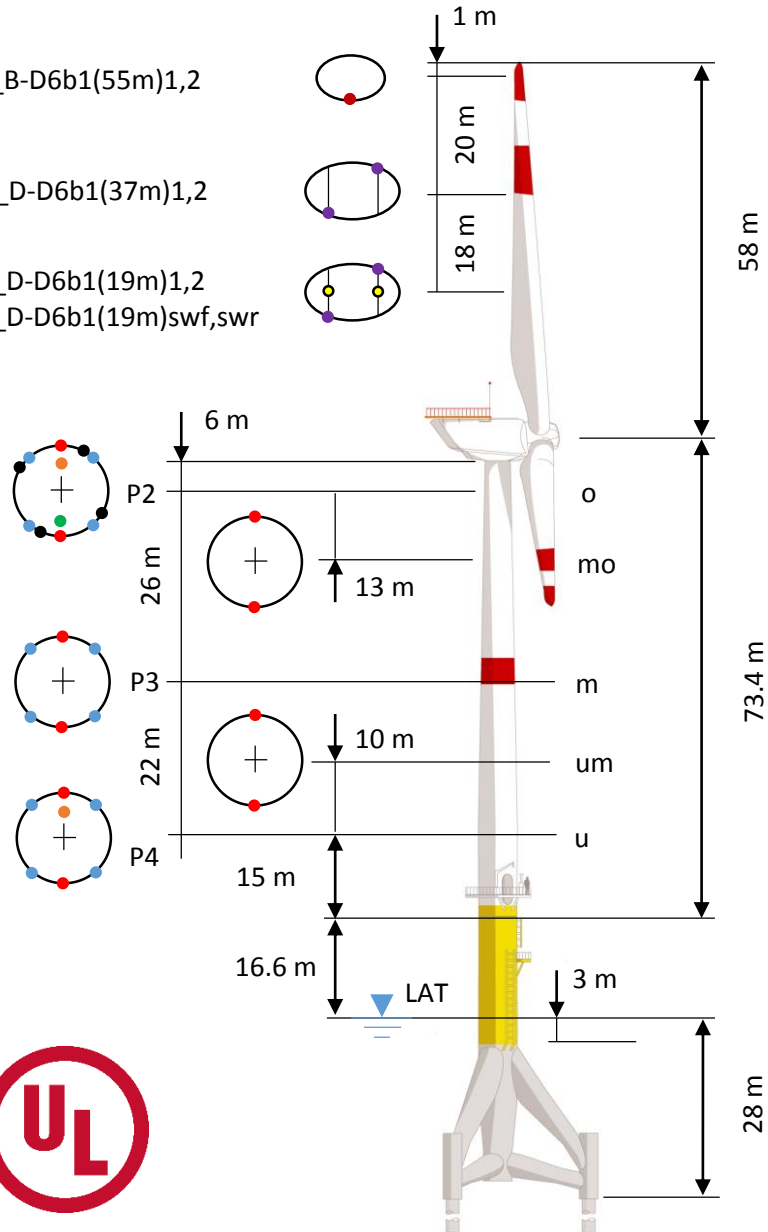
AV07

M7_B-D6b1(55m)1,2

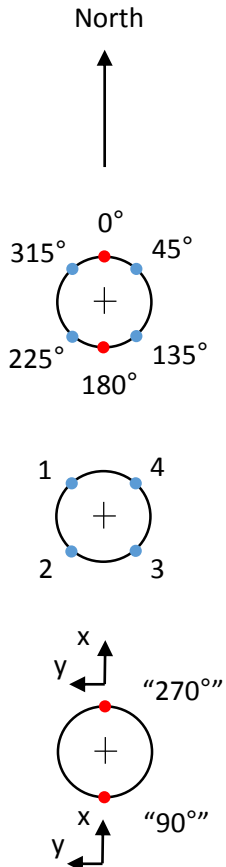
M7_D-D6b1(37m)1,2

M7_D-D6b1(19m)1,2

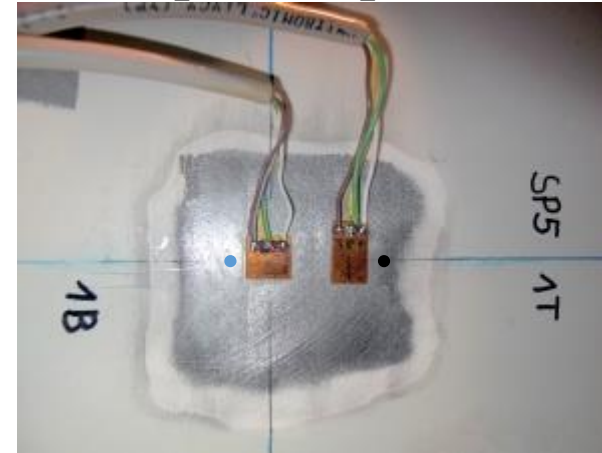
M7_D-D6b1(19m)swf,swr



Sensor (Type)	Name	Manufacturer	Circuit
● T-Strain Gauge (D)	CEA-06-125UT-350	Vishay Micro-Measurements	Half Bridge ($k = 2.115, 2.135$)
● Torsion Strain Gauge (DT)	CEA-06-187UV-350	Vishay Micro-Measurements	Full Bridge ($k = 2.065$)
● Shear Strain Gauge (D)	EK-00-250TR-10C/W	Vishay Micro-Measurements	Half Bridge ($k = 2.01$)
● Strain Gauge (D)	CEA-00-500UW-350	Vishay Micro-Measurements	Quarter Bridge ($k = 2.06$)
● Accelerometer (B)	motionSENSOR BG2168	Micro-Sensor GmbH	-
● Accelerometer (B)	JTF 10 g	Honeywell, U.S.A.	-
● Inclinomometer (N)	NS-5/DMG2-x	HL-Planartechnik GmbH	-
● Temperature (T) / Humidity (H)	KPC1.6/ME	Galltec Mela, Germany	-



M7_DT-C56o1, M7_DT-C56ot



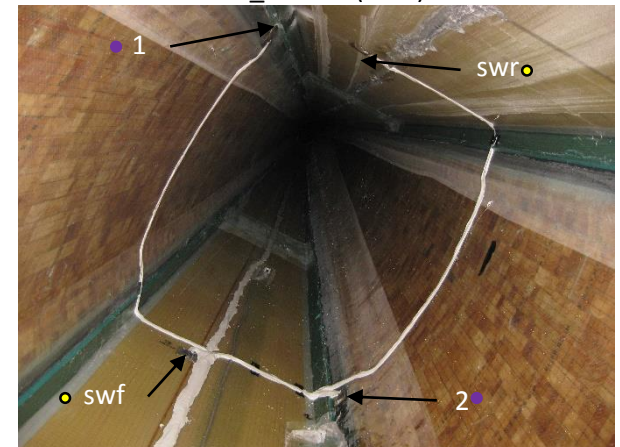
B-C56o3,4



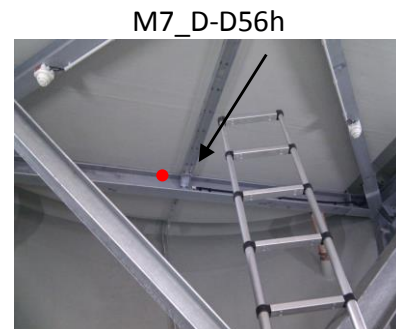
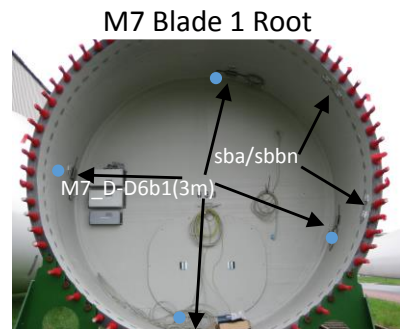
M7_N-C56o1,2



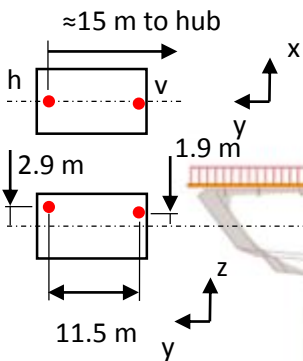
M7_D-D6b1(19m)



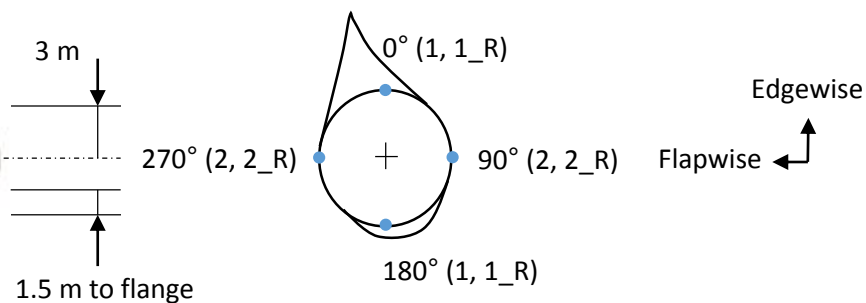
Sensor	Name	Manufacturer	Circuit
● Opposing Strain Gauges (D)	EA-06-250PD-350/W	Vishay Micro-Measurements	Full Bridge ($k = 2.135$)
● T-Strain Gauges (D)	HBM 3/350Z LE11	Hottinger Baldwin Messtechnik GmbH	Full Bridge ($k = 2.03$)
● Strain Gauges (D)	HBM 3/350Z LE11	Hottinger Baldwin Messtechnik GmbH	Half Bridge ($k = 2.03$)
● Accelerometer (B)	motionSENSOR BG2168	Micro-Sensor GmbH, Germany	-



Nacelle Accelerometers



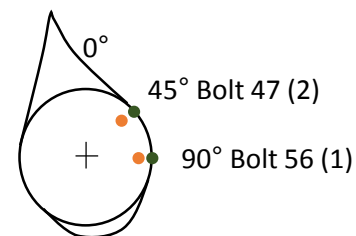
Blade Root Strain Gauges (Blades 1, 2, 3)



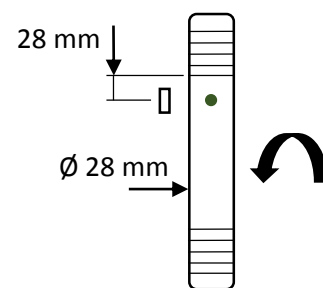
M7_D-D6b1u(3m)1,2
M7_D-D6b1u(3m)1,2_R

Bolt Strain Gauges

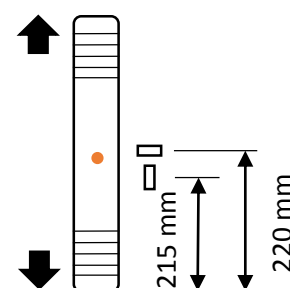
(Blade 1)
M7_D-D6sba1,2
M7_D-Dsbbn1,2



sbbn (normal bending)

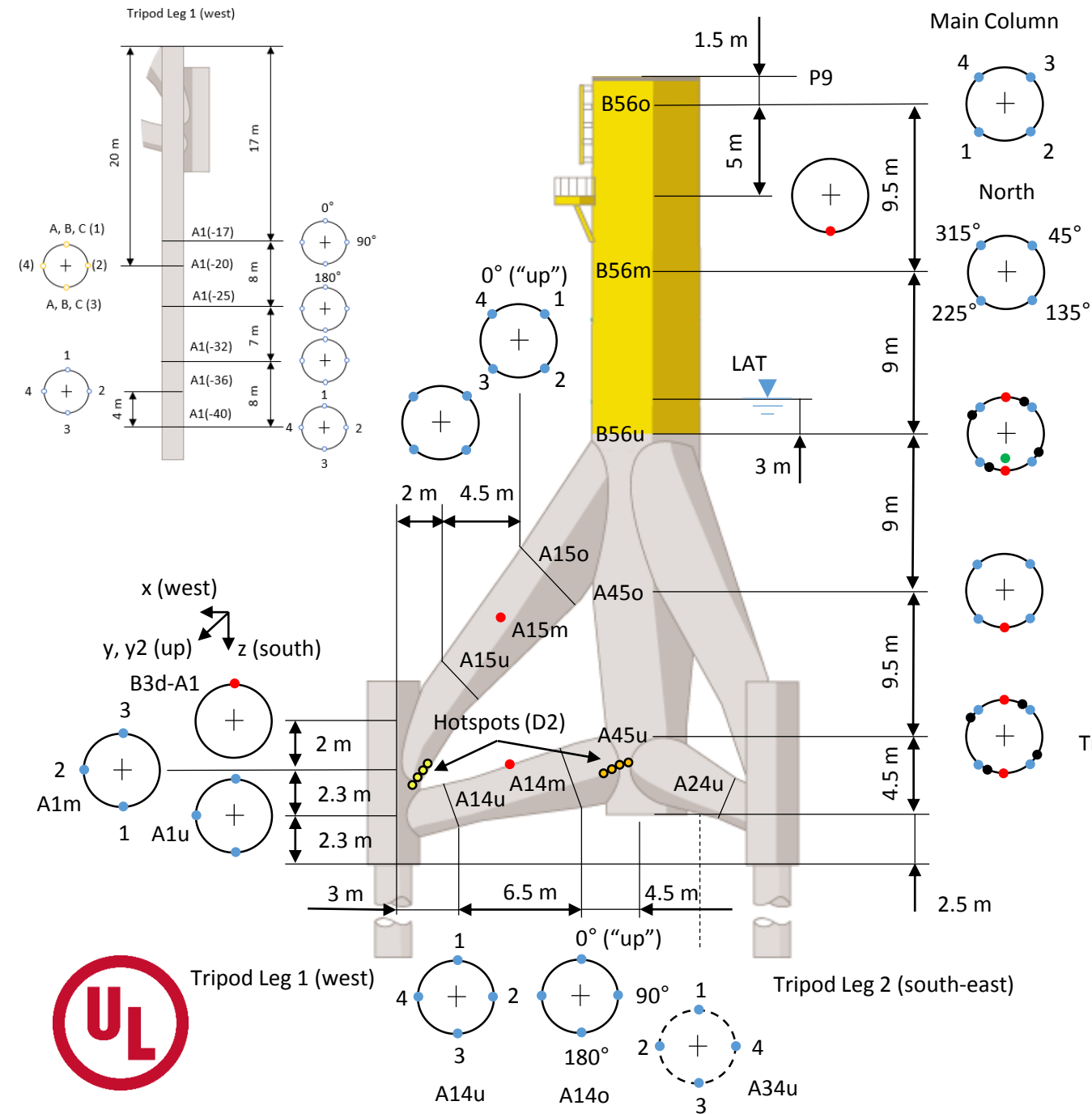


sba (axial strain)

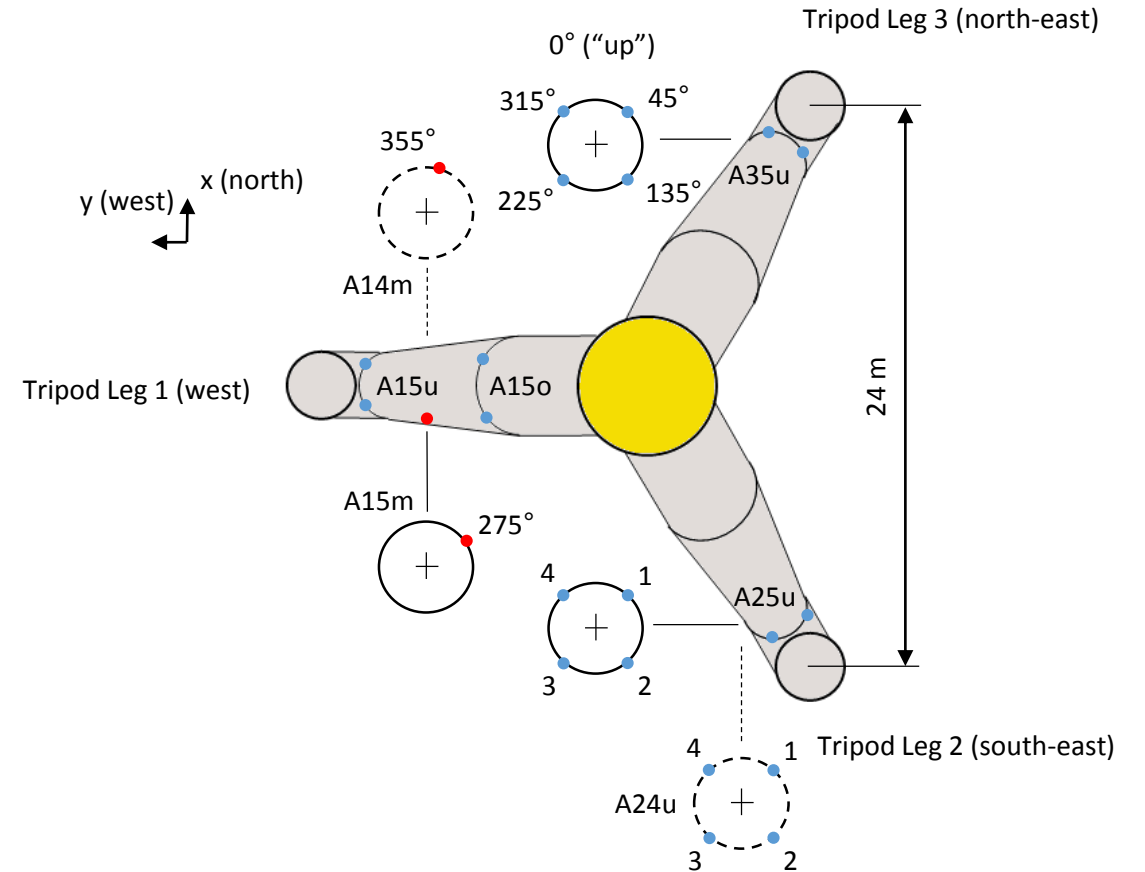


blade end

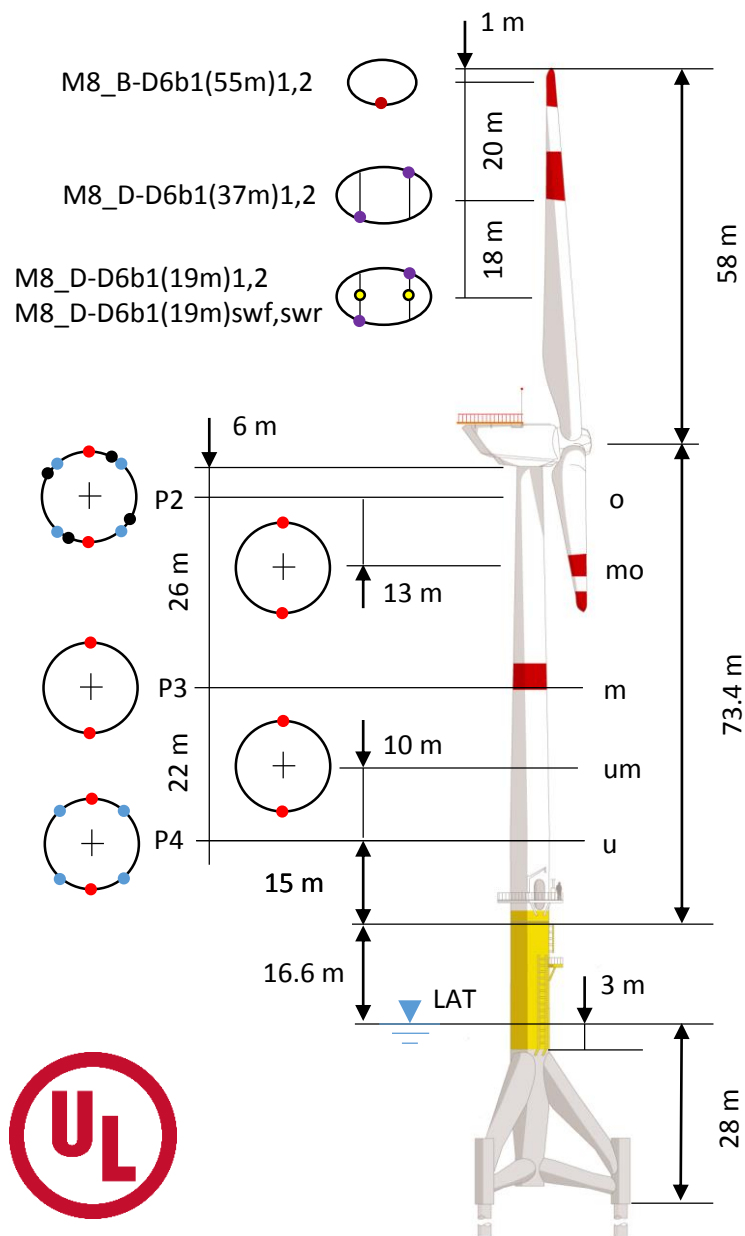




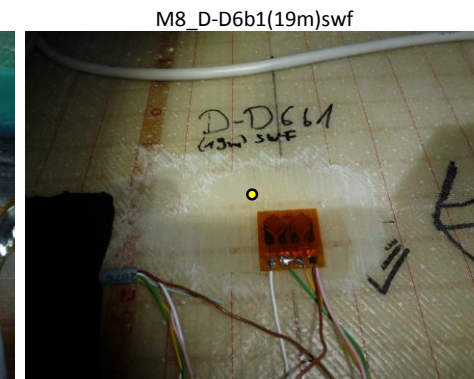
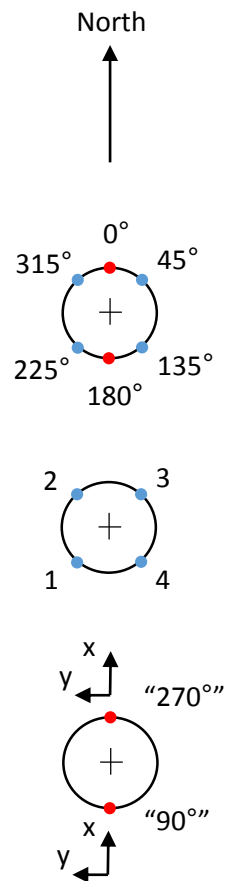
Sensor	Name	Manufacturer	Circuit
● T-Strain Gauges (D)	1-XY91-6/120	HBM GmbH	Half Bridge
● Torsion Strain Gauges (DT)	1-XY21-3/120	HBM GmbH	Full Bridge
● Single Strain Gauge (D2)	1-LY11-6/120	HBM GmbH	Quarter Bridge
● Single Strain Gauge (D2)	1-LY11-3/120	HBM GmbH	Quarter Bridge
● Accelerometer (B)	motionSENSOR BG2168	Micro-Sensor GmbH	
● Inclinator (N)	NS-5/DMG2-x	HL-Planartechnik GmbH	
● Rosette Strain Gauge (D2)	3-350RY101	THALES GmbH	Quarter Bridge
● Single Strain Gauge (D)	6-350LY61	THALES GmbH	Quarter Bridge



AV08

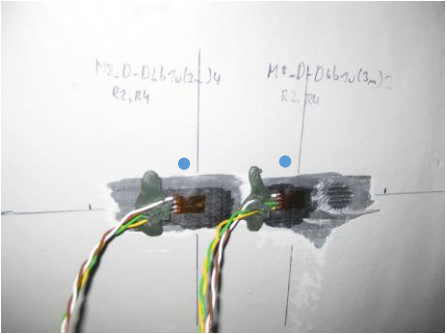


Sensor	Name	Manufacturer	Circuit
● T-Strain Gauge (D)	CEA-06-125UT-350	Vishay Micro-Measurements	Half Bridge ($k = 2.115, 2.135$)
● Torsion Strain Gauge (DT)	CEA-06-187UV-350	Vishay Micro-Measurements	Full Bridge ($k = 2.065$)
● Single Strain Gauge (D)	CEA-00-500UW-350	Vishay Micro-Measurements	Quarter Bridge ($k = 2.065$)
● Shear Strain Gauge (D)	EK-00-250TR-10C/W	Vishay Micro-Measurements	Half Bridge ($k = 2.01$)
● Accelerometer (B)	JTF 10 g	Honeywell, U.S.A.	-
● Accelerometer (B)	motionSENSOR BG2168	Micro-Sensor GmbH, Germany	-



Sensor	Name	Manufacturer	Circuit
● Opposing Strain Gauges (D)	EA-06-250PD-350/W	Vishay Micro-Measurements	Full Bridge ($k = 2.135$)
● T-Strain Gauges (D)	HBM 3/350Z LE11	Hottinger Baldwin Messtechnik GmbH	Full Bridge ($k = 2.03$)
● Strain Gauges (D)	HBM 3/350Z LE11	Hottinger Baldwin Messtechnik GmbH	Half Bridge ($k = 2.03$)

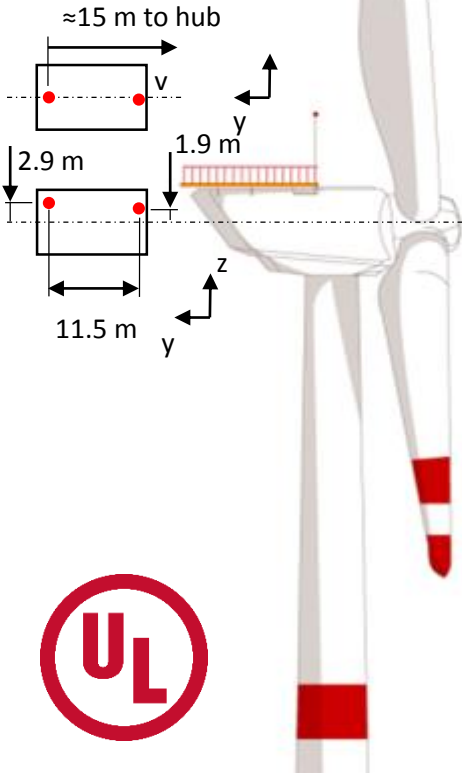
M8_D-D6b1u(3m)270°



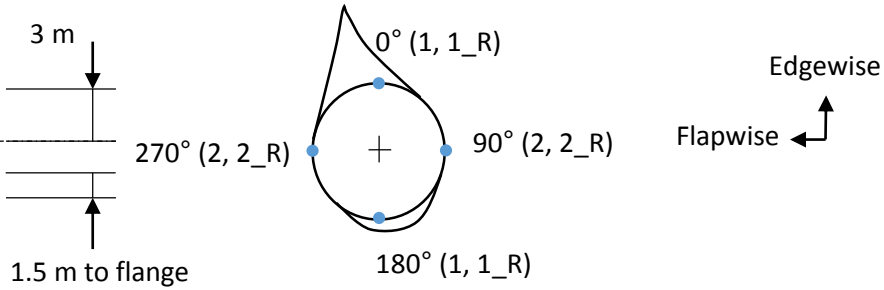
M8_D_D6sba2,sbbn2



Nacelle Accelerometers



Blade Root Strain Gauges (Blades 1, 2, 3)



Bolt Strain Gauges (Blade 1)

