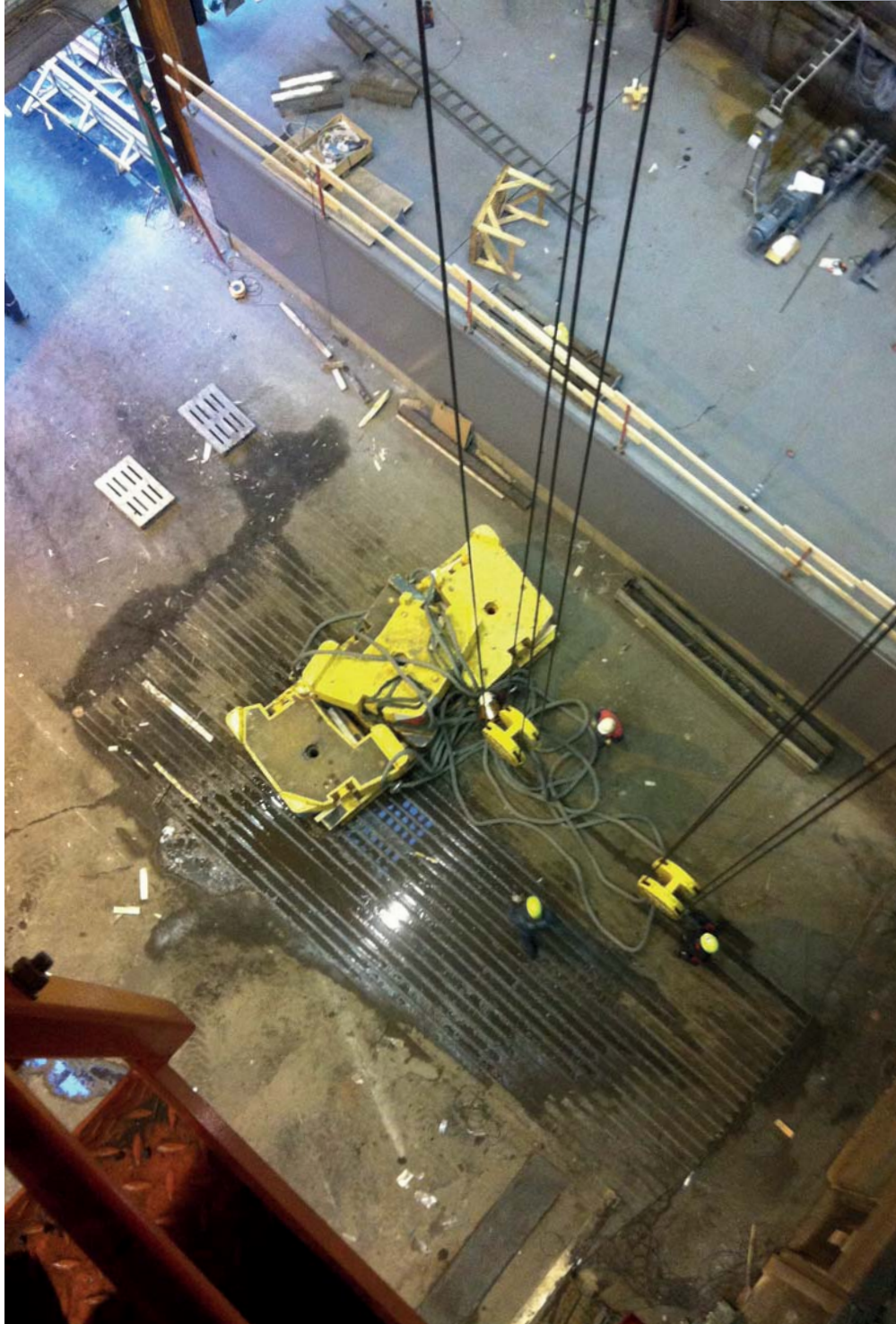


## Gigasense AMU-Angle Measurement Unit for CSM



The AMU sensor will complement the overload protection with angle measurement of the wire rope, or to measure the angle on the crane boom.

The AMU sensor either controls the angle and the force in conjunction, or controls only the angle separately in a lifting device

With Gigasense AMU sensor, you increase the life time of the wire ropes and save money.

This excellent device further improves your safety and save and protects wire ropes.

The AMU sensor is an option and can only work combined with a CSM 8:7xx

### GIGASENSE

Gigasense products within Force Measurement and Crane Safety are well known high quality products, built from many years' experience and used by leading heavy duty industry around the world.

Gigasense products meet the highest demands of performance level requirements.

We are represented by many selected local partners in more than 30 countries on six continents.

# AMU-Angle Measurement



## Technical Data

MAINS SUPPLY VOLTAGE  
24 VDC, maximum 50mA  
supplied by CSM unit

ENCLOSURE  
Aluminium box  
Dimensions 98x64x37mm  
PROTECTION CLASS IP65.

TEMPERATURE RANGE  
-20°C to +70°C.

INTERFACE CONTROL  
CAN interface  
for CSM unit only

ANGLE PARAMETERS  
F-angle  $0 \pm 90^\circ$   
S-angle  $0 \pm 90^\circ$   
A-angle  $0 \pm 90^\circ$

RESOLUTION  
angle  $0,1^\circ$

MOUNTING  
Attached directly  
On wire rope  $\varnothing$  5-44mm  
Or on the crane boom

SETTING OF LIMITS/  
PARAMETERS  
Simply from CSM unit

## Function

The AMU sensor measures the angles of the wire rope, or on the crane boom. It is used to control the angle via limits for max. allowed angle, or in conjunction with force and angle, to avoid wear of the wire ropes. As the angle changes on the crane boom or wire rope, the less load is accepted by the CSM to lift, if the AMU works in conjunction with a force transmitter.

## Settings

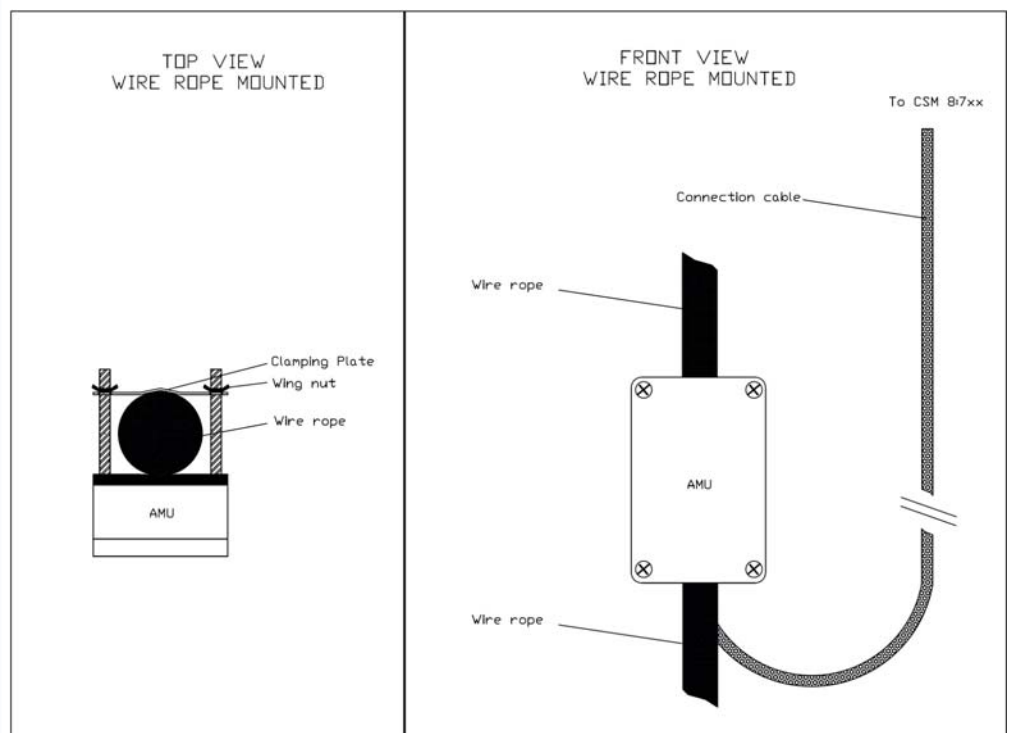
All settings are made from CSM unit  
Breaking values for different angles or in conjunction with the force.  
Compensation curves for combined angle control and force measurement, affect the breaking value (normally set to control the overload protection value).  
The more angle in a certain direction, or on the crane boom, the more the CSM 8:7xx compensates the breaking value.

## Safety

If the CAN bus is interrupted between the CSM 8:7xx and the AMU sensor, the CSM puts the assigned limits in alarm state. Several AMU sensors can be connected to the same CSM 8:7xx

## Mounting

The AMU sensor is clamped on to the wire, with the supplied clamping plate, or directly on the crane boom.



 **GIGASENSE**



producer of **PIAB**