

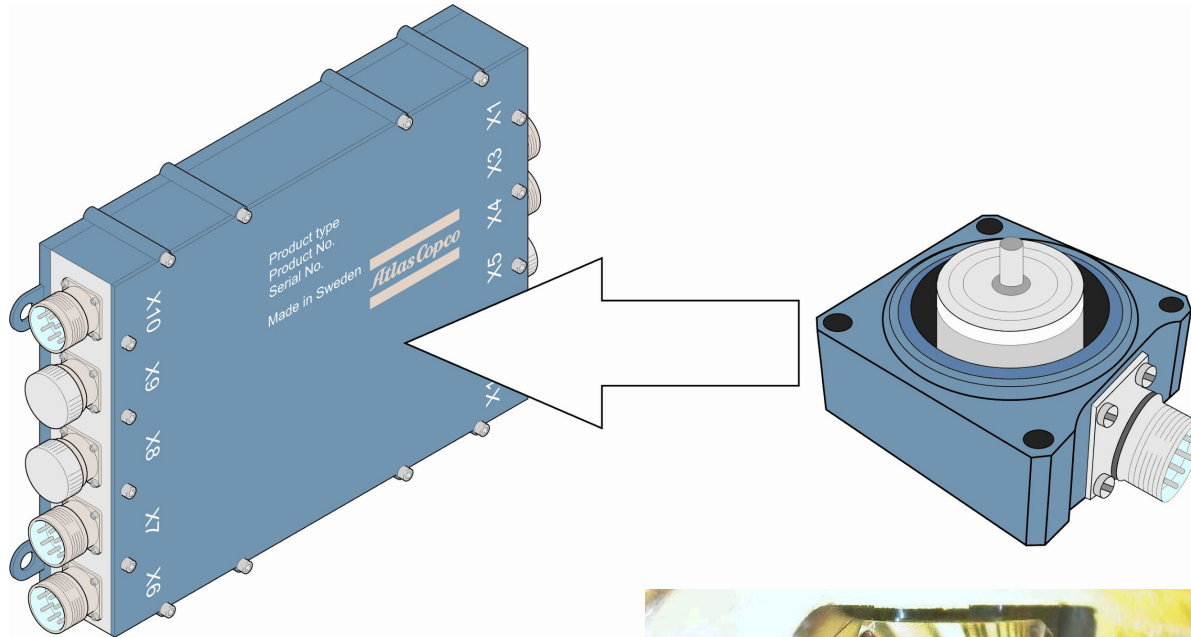
# Sensors



## Sensors

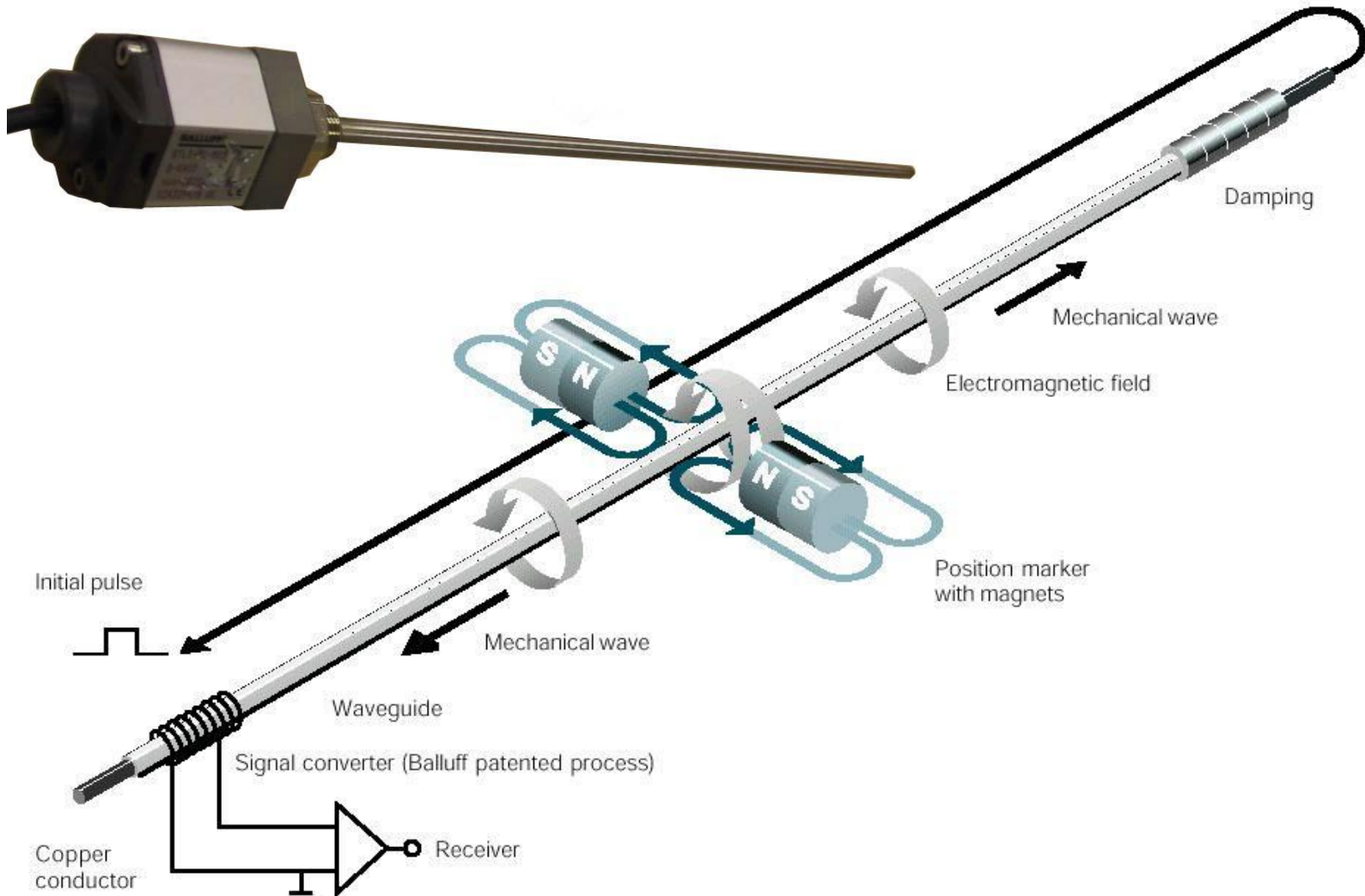
# Sensors

## Angular sensor – Resolver sensor



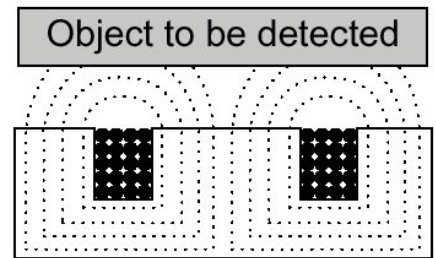
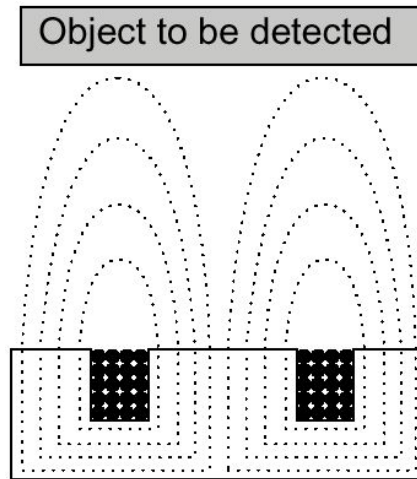
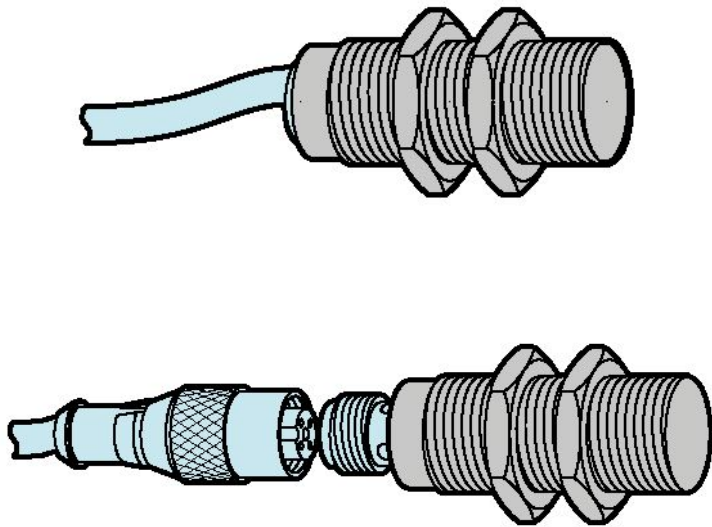
# Sensors

## Length sensor - Baluff



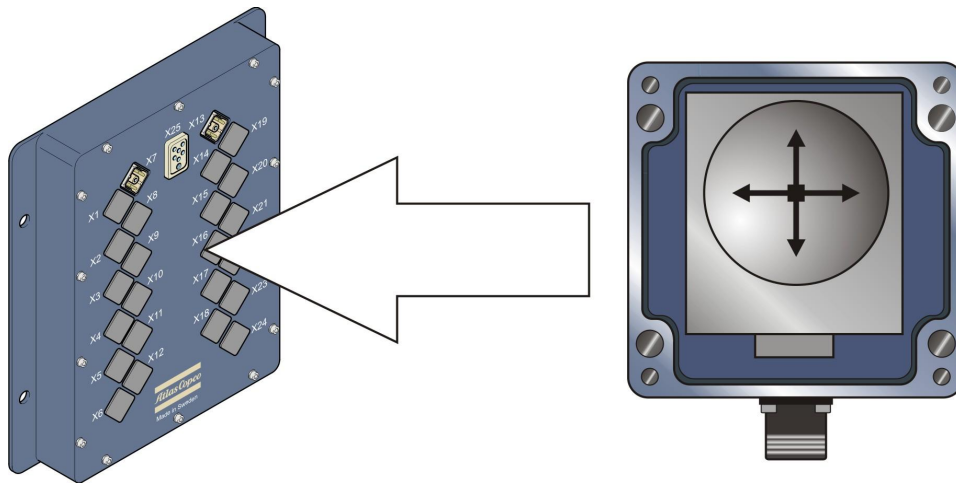
# Sensors

## Position sensor – Inductive sensor



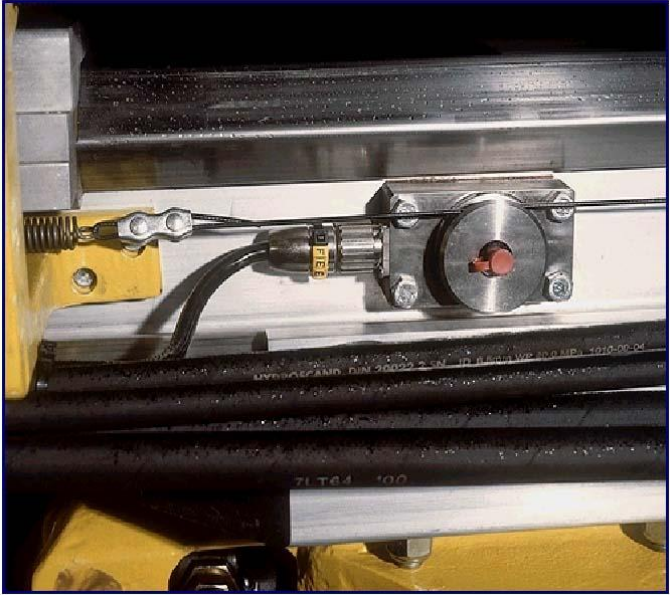
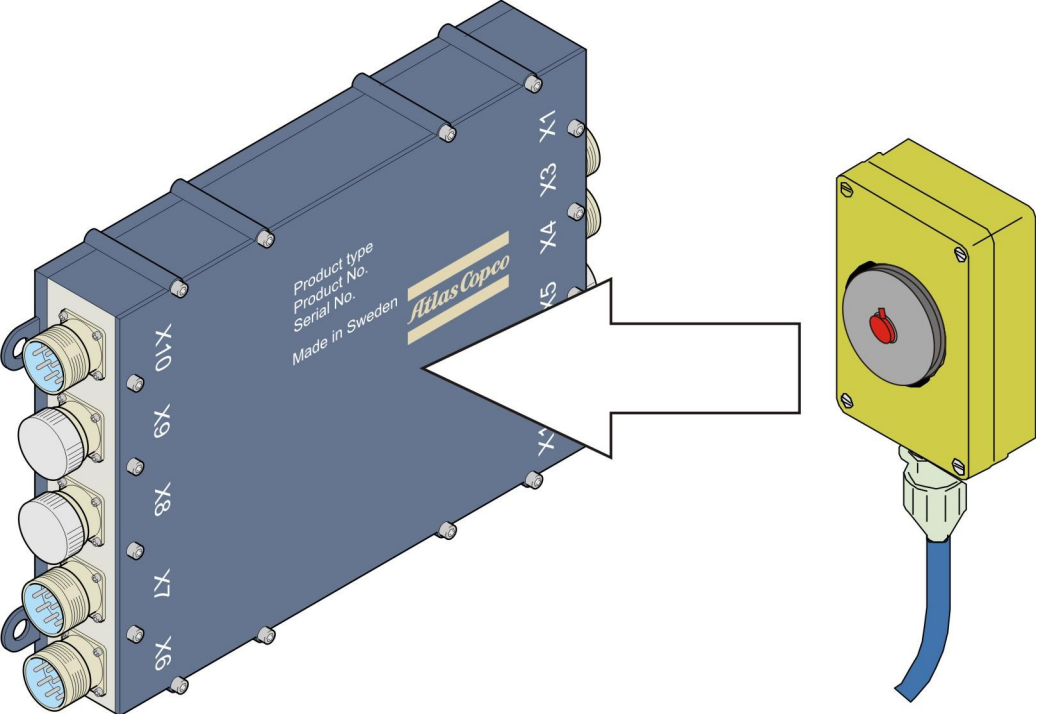
# Sensors

## Angle sensor - Inclinator



# Sensors

## Length sensor - Encoder



# Sensors

## Length sensor - Potentiometer



# Sensors

## Angle sensors – CANBUS Sensors

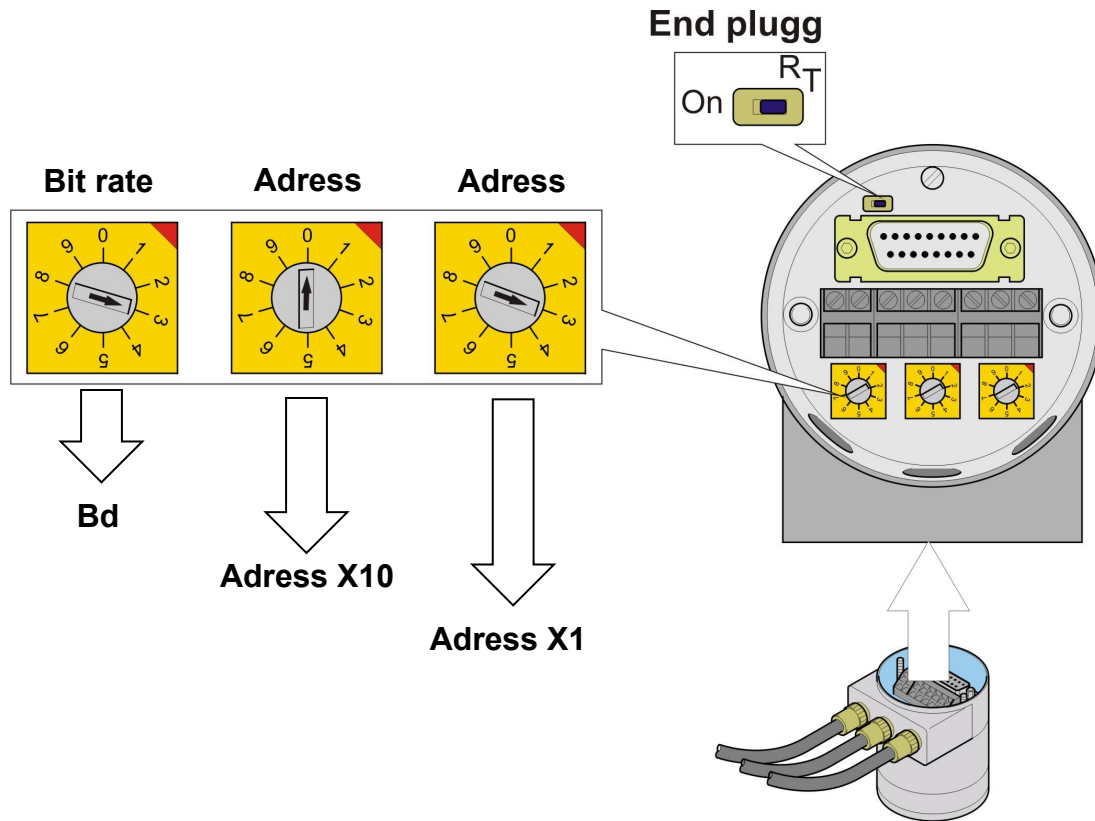
- Connects directly to the CAN bus
- Standard automotive components





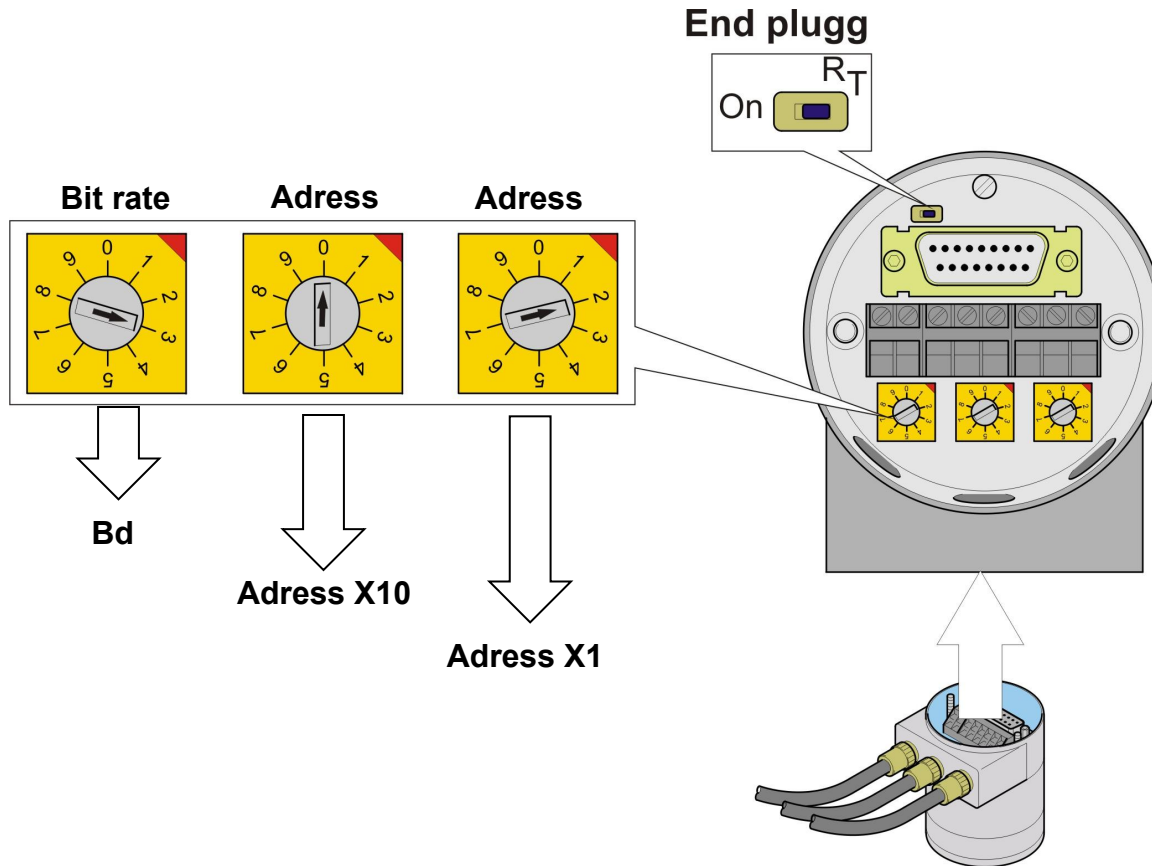
# Sensors

## Angle sensors – CANBUS Sensors (D171)



# Sensors

## Angle sensors – CANBUS Sensors (D171)



# Sensors

## Pressure sensors



50 bar

0 - 50bar

Coefficient  
61

Air Pressure

Lubrication Pressure



350 bar

0 - 350 bar

Coefficient  
427

Hydraulic Pressure

Water Pressure

# Sensors

## Pressure sensors - Offset

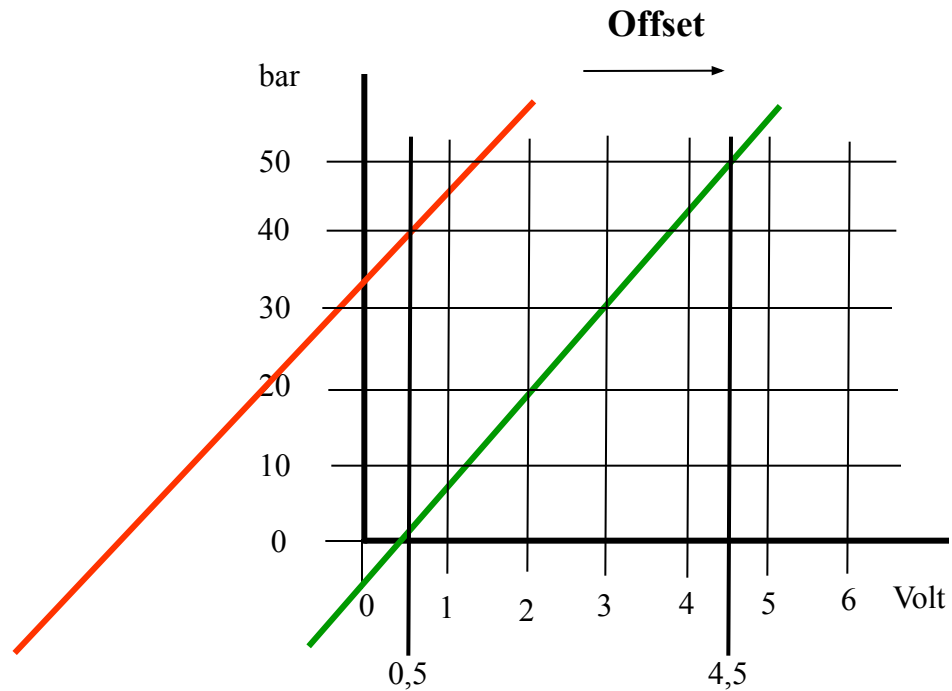


### How to find Offset

Coefficient = 100

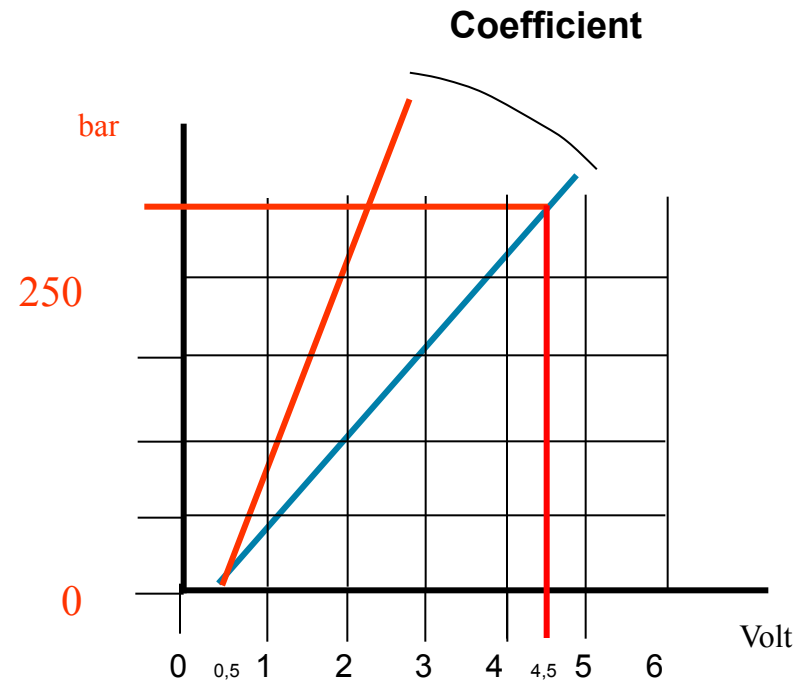
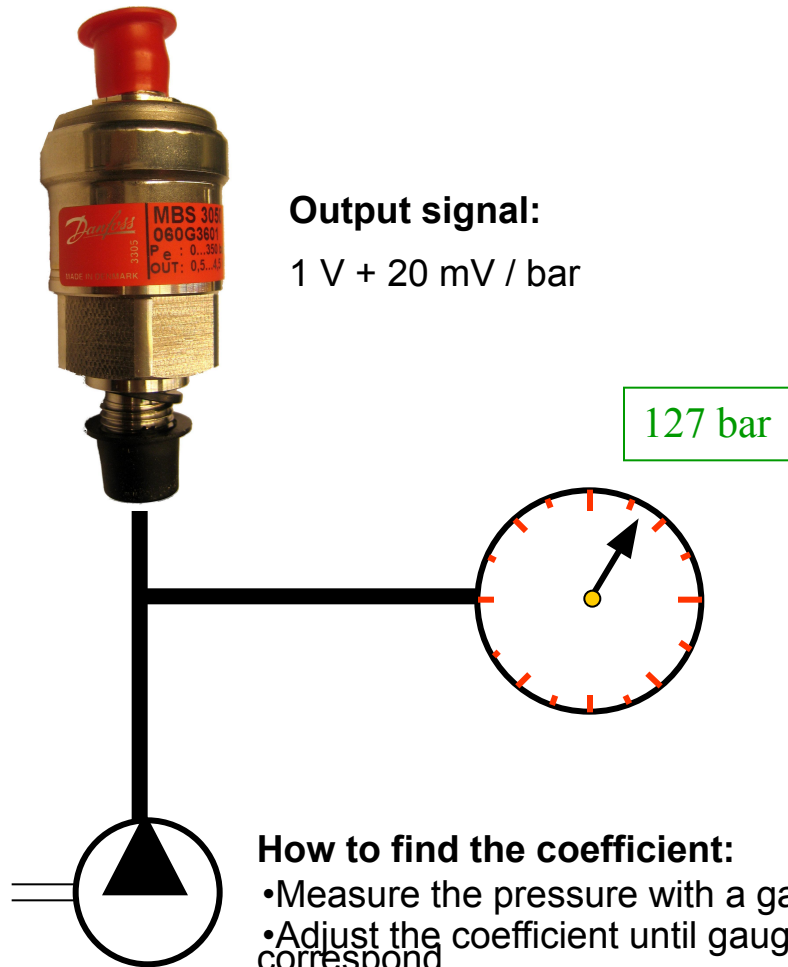
Offset = 0

**New offset = Value x 10**



# Sensors

## Pressure sensors - Coefficient




# Sensors

## Pressure sensors - Calibration

DISP 1

3.2

### Sensors

 Boom 2

Sensor	Coefficient	Offset	Value	Module	Contact	Marking
Rotation	<input type="text" value="300"/>	<input type="text" value="165"/>	0.0 bar	D202	X10	B101
Percussion	<input type="text" value="300"/>	<input type="text" value="176"/>	0.0 bar	D202	X8	B100
Feed	<input type="text" value="300"/>	<input type="text" value="174"/>	0.0 bar	D202	X14	B133
Damper	<input type="text" value="300"/>	<input type="text" value="176"/>	0.0 bar	D202	X6	B132
Water pressure	<input type="text" value="300"/>	<input type="text" value="195"/>	95.1 bar	D510	X10	B136
Water flow switch			Off	D201	X11a	B141
Rock drill return			Off	D202	X11b	B121

# Sensors

## Pressure sensors - Calibration

Display\_1

M3.1

Sensors

Boom 1

Sensor	Set to zero	Value	Module	Contact	Marking
Feed pressure	<input checked="" type="checkbox"/>	0.0 bar	D102	X14	B133
Rotation pressure	<input type="checkbox"/>	0.0 bar	D102	X10	B101
Percussion pressure	<input type="checkbox"/>	0.0 bar	D102	X8	B100
Damper pressure	<input type="checkbox"/>	44.8 bar	D102	X6	B132
Water pressure	<input type="checkbox"/>	19.9 bar	D510	X10	B136
Water flow		0	D102	X11a	B141
Rock drill return		0	D102	X11b	B121
Cradle position	<input type="button" value="Calibrate"/>	0.000 m	D120	R10	B307

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*Atlas Copco*

