

# CONTACTLESS ROTARY SENSOR HMS 220



These contactless, absolute measuring rotary sensors based on the Hall effect are designed with robust housings. The METALLUX series of rotary sensors HMS 220 features a long service life, excellent linearity and a robust design.

## FEATURES

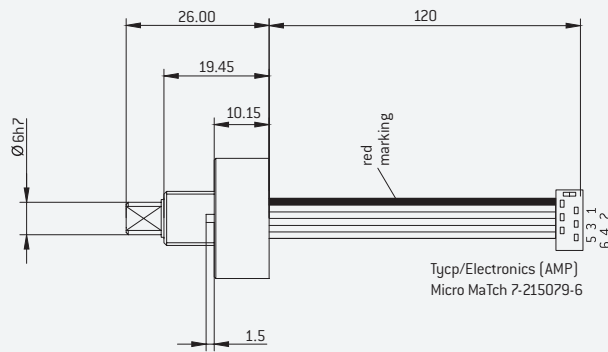
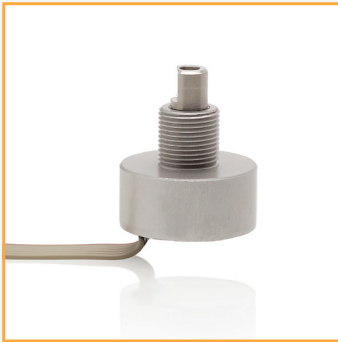
- Long service life
- Good linearity
- Robust design

## APPLICATIONS

- Joysticks
- Valve controls
- Steering angle measurement
- Servo systems

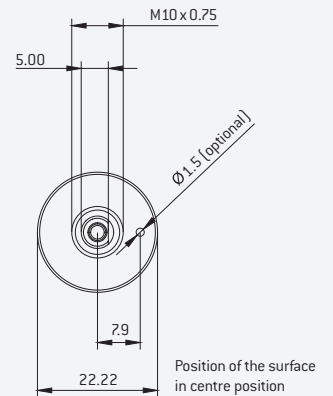
## SPECIAL FEATURES

- Hall sensor
- Freely programmable angles possible



Plug connection, analogue output  
Pin 1 VDD 5V  
Pin 2 GND  
Pin 3 OUTPUT analogue

Plug connection of SPI  
Pin 1 VDD 5V  
Pin 2 GND  
Pin 3 OUTPUT In / Out  
Pin 4 Serial clock  
Pin 5 Slave select  
Pin 6 n.c.



## ELECTRICAL SPECIFICATIONS

Measuring range	0-360°
Independent linearity	± 0.5%
Resolution	12 bit
Supply voltage (Vs)	5 (± 10%) VDC
Output signal	10% ... 90% of Vs
Current consumption without load (typical)	18 mA
Min. ohmic load at output	10 kOhm
Max. capacitive load at output	10 nF
Electrical connection	Tinned cable wires

Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. \*Others on request.

## MECHANICAL SPECIFICATIONS

Mechanical positioning range	Continuous rotation
Bearings	Double ball bearing
Min. service life (mechanical)	200 million cycles

## MATERIALS

Housing material	Anodised aluminium
Axis material	Stainless steel

## AMBIENT CONDITIONS

Operating temperature	-40°C ... +85°C
-----------------------	-----------------

## OPTIONS

Electrical angle	Programmable from 0° ... 360°
Output signal	analogue *

## SAMPLE ORDER

Part no.	Type series	Elect. measuring range	Elect. connection
H061500286	HMS	360°	Wire connection