

- Linear magnetic sensor, with direct reading of the absolute position
- Resolutions up to 1  $\mu\text{m}$
- CANopen protocol.
- Contactless reading through positioning sensor based on magneto resistance, with AMR effect (Magnetic Anisotropy).
- Warning indication through LED.
- Extremely easy and fast mounting of the entire measuring system, with wide alignment tolerances
- Possibility to fix the magnetic sensor with M4 screws or with through M3 screws
- Small size, to allow installation in narrow spaces.
- Axial or radial robust sealed cable output.
- The cable is suitable for continuous movements.



AMS2-CAN Aluminium Housing



AMS2-CAN Zinc Die-Casting

## Mechanical Data

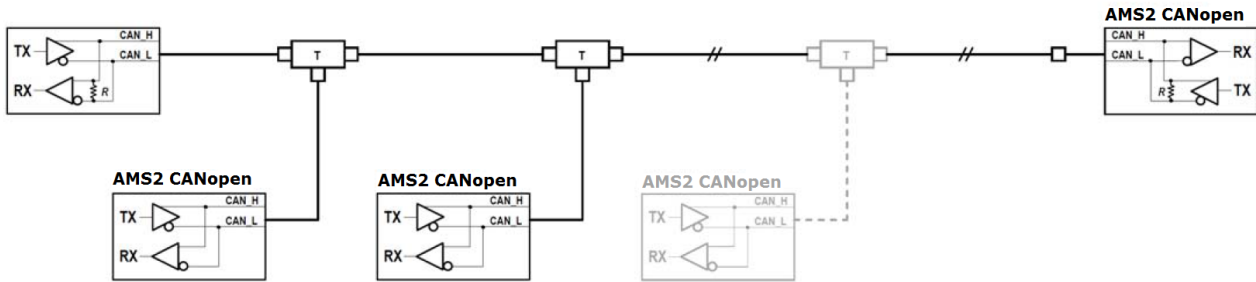
Material Housing	Aluminium Zinc Die-Casting
Weight	80g
Measuring Length	up to 30.000 mm
Traversing Speed	max. 300 m/min max. 90 m/min -> with a 1 $\mu\text{m}$ resolution
Warning indication through LED	LED glow: operational LED does not glow: check distance
Vibrations Resistance (EN 60068-2-6)	200 m/s <sup>2</sup> [55 ÷ 2.000 Hz]
Shock Resistance (EN 60068-2-27)	150 m/s <sup>2</sup> [11 ms]
IP-Rating (EN60529)	IP67
Operating Temperature	0 °C to +50°C
Storage Temperature	-20°C to +70°C
Relative Humidity	100%
Cable Length	0,3 m (Standard)
Cable Bending Radius	≥80 mm

## Electrical Data

Pole Pitch	2 + 2 mm
Resolution	500; 100; 50; 10; 5; 1 $\mu\text{m}$
Accuracy	±15 $\mu\text{m}$
Repeatability	±1 increment
Interface	CAN bus (2x2x0,34)
Protocol	CANopen - DS406
Power Consumption	60 mA (with R = 120 $\Omega$ / 24 VDC)

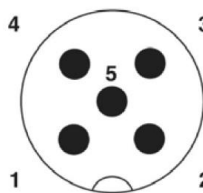
# Datasheet

## Pin Principle



Please T-parts, terminating impedance and extension cable separate ordering according follow description

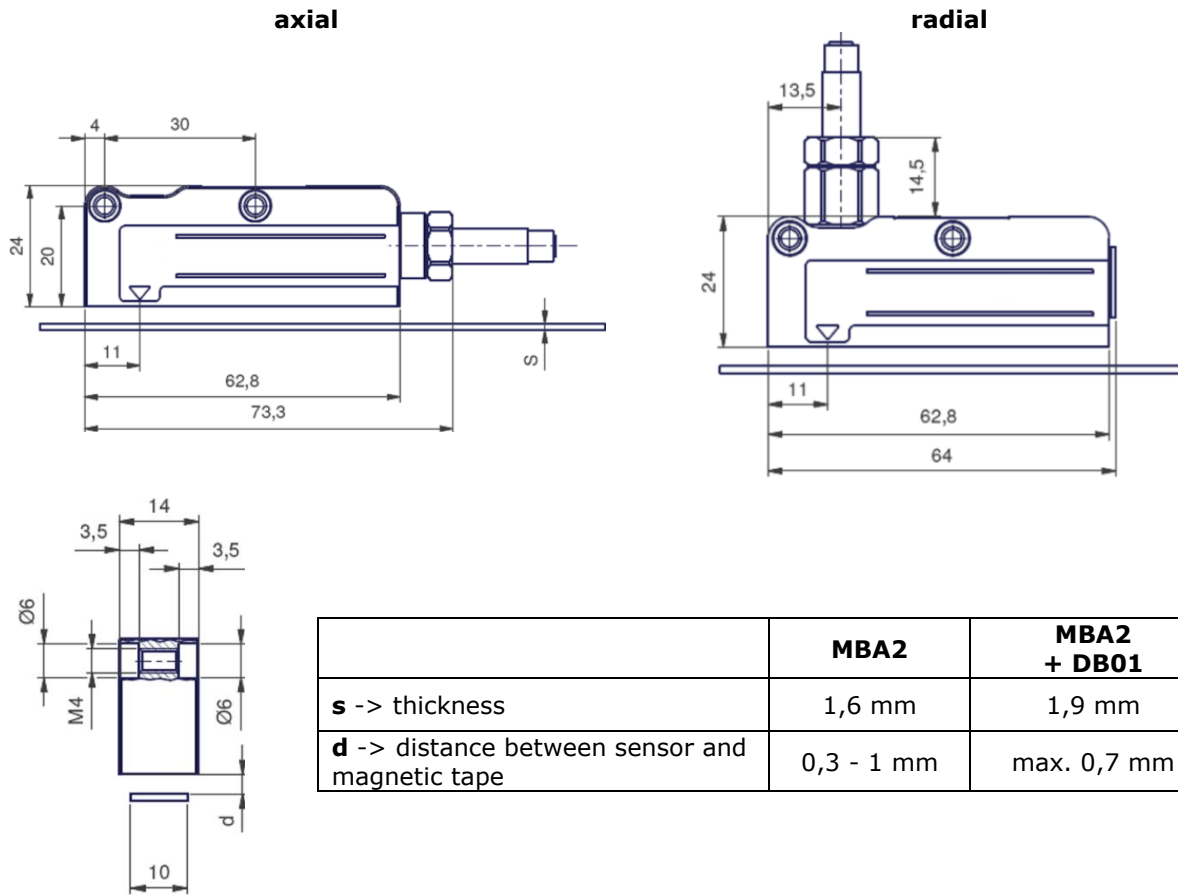
	<p>T-Part CANopen / DeviceNet Art.Nr.: ➤ 16134</p>	
	<p>terminating impedance CANopen / DeviceNet Art.Nr...: ➤ 16138</p>	
	<p>Bus-system cable CANopen / DeviceNet 5 pin Connector / female Connector Art.Nr...: ➤ 16139 (0,3m) ➤ 16140 (0,5m) ➤ 16142 (1,0m) ➤ 16143 (2,0m) ➤ 16147 (5,0m) ➤ 16147 (10,0m) ➤ 16147 (15,0m)</p>	
	<p>Bus-system cable CANopen 5 pin with open cable end Art.Nr...: ➤ 16153 (2,0m) ➤ 16154 (5,0m) ➤ 16156 (10,0m) ➤ 16158 (15,0m)</p>	



PIN	Signals	Color
1	SCH	shield
2	V+	brown
3	V-	white
4	CAN_H	green
5	CAN_L	yellow

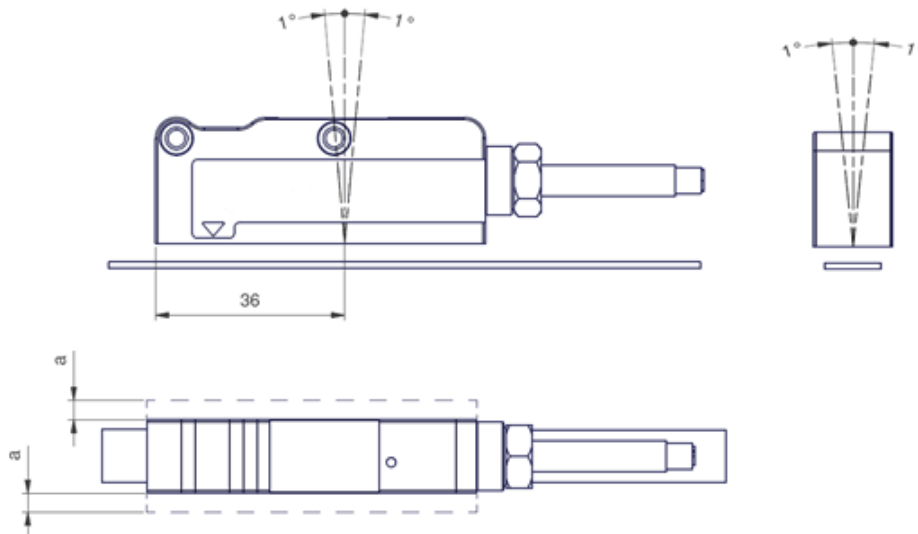
# Datasheet

## Dimensions



## Sensor Alignment Tolerances

a = alignment tolerances = 0,5 mm



# Datasheet

## Ordering Codes

**Type** AMS2-CAN - Z - 1 - A - C - M0,3/C - C0

### Housing

**Z** = Zinc Die-Casting

**A** = Aluminium

### Resolution [ $\mu\text{m}$ ]

1, 5, 10, 50, 100, 500

### Cable Exit

**A**= axial

**R**= radial

### Output signal

**C**=CANopen

### Cable Length / Cable Type

**M0,3**= 0,3 m (standard)

**C**= CAN bus

### Connection

**C0**= Connection 5 Pin M12

**SC**= without Connection