



### ZSS7000 range (Zero Speed Hall Effect)



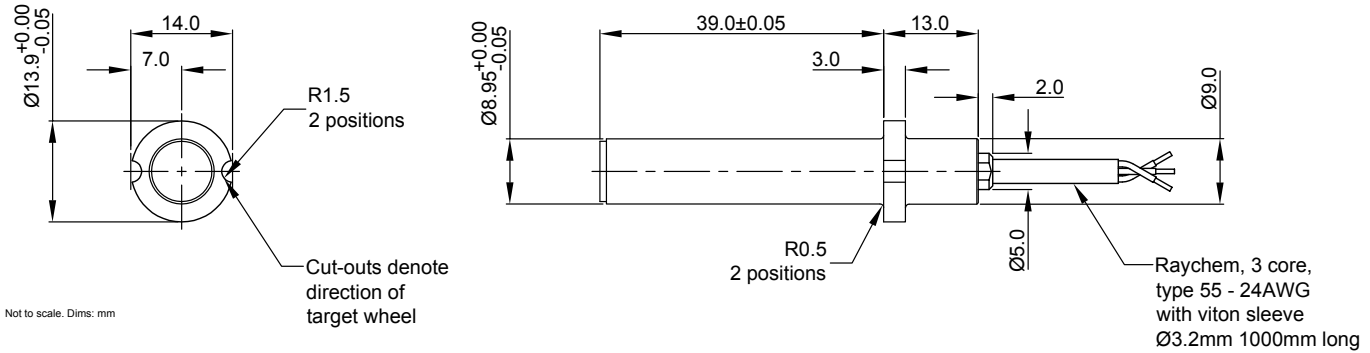
- Single Hall Effect
- No external magnets
- Integrated electronics
- Raychem signal cabling
- Up to 150°C operating temperature
- Choice of mounting options

Speed sensors are designed to detect a target-induced magnetic field between the sensor face and a target. No magnets are required in the target. All our speed sensors are heat cycled prior to final calibration to ensure survival when operated at elevated temperatures.

The Differential Hall Effect (DSS) sensor benefits from integrated signal electronics so no additional circuitry is required. The integrated electronics operate within two Hall Effect elements and operated at temperatures up to 175°C. The Inductive (ISS) sensor offers a higher temperature performance (200°C) for more extreme applications and requires an interface that triggers on threshold or zero crossing. The output voltage of the sensor increases and is proportional to target speed and air gap. The Zero Speed Hall Effect (ZSS) sensor is designed to switch in the presence of ferromagnetic targets such as gear teeth down to absolute zero speed.

# Model dimensions and mounting

## ZSS710X - body clamp mounting

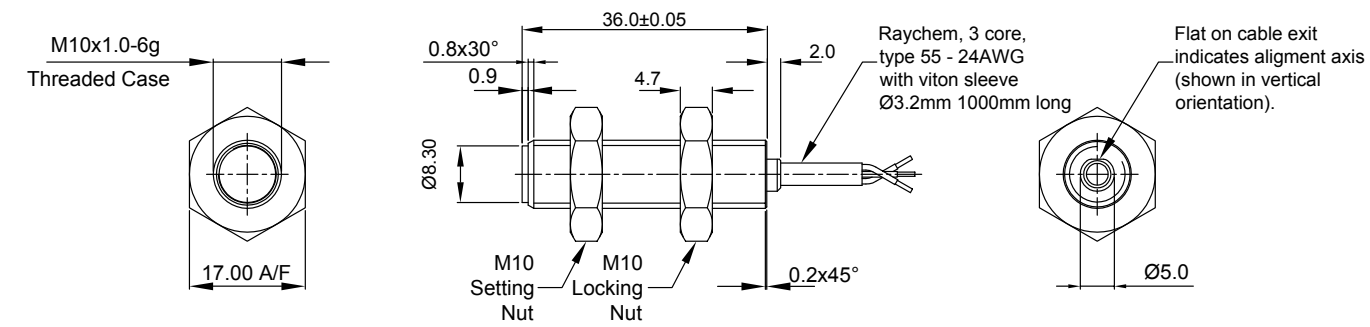


Not to scale. Dims: mm

Product ordering code

**ZSS710X**  
 0 = with pull up resistor to supply voltage (Vs)  
 1 = no pull up resistor (see note 2 & 3)

## ZSS720X - 10mm threaded body

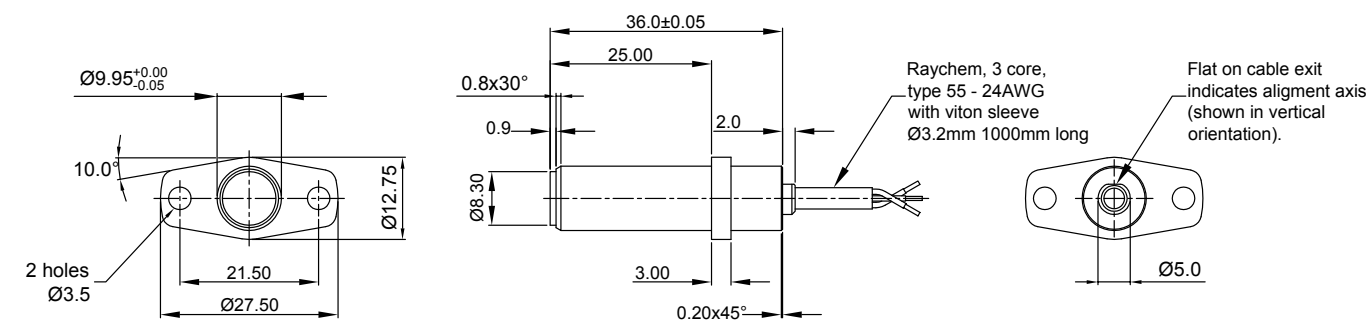


Not to scale. Dims: mm

Product ordering code

**ZSS720X**  
 0 = with pull up resistor to supply voltage (Vs)  
 1 = no pull up resistor (see note 2 & 3)

## ZSS730X - flange mounting



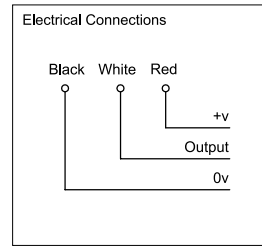
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Product ordering code

**ZSS730X**  
 0 = with pull up resistor to supply voltage (Vs)  
 1 = no pull up resistor (see note 2 & 3)

## Electrical & mechanical information for ZSS7000

Frequency response	15 to 15,000	Hz
Supply voltage	5 to 24	Volts
Supply current	<10	mA
Output current Max	35	mA
Output type	Open collector	
Air gap Max	1.5	mm
Operating temp. range (Continuous)	-40° to +150°	°C
Sealing	IP66	
Weight (approx.)	30	grams
Material	Case - Aluminium alloy	



Note:

1. Incorrect wiring may cause internal damage.
2. The output is set to high at power on regardless of the held time output. The output only changes after the first min is detected.

## Other Speed sensor models available

### DSS7000

- Inductive technology
- No external magnets
- Fully encapsulated
- Aluminium construction



### ISS7000

- Inductive technology
- No external magnets
- Raychem signal cabling
- 200°C (440°F) operating temperature



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### Additional product information

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