Not to Scale
Dims: mm

DSS730X

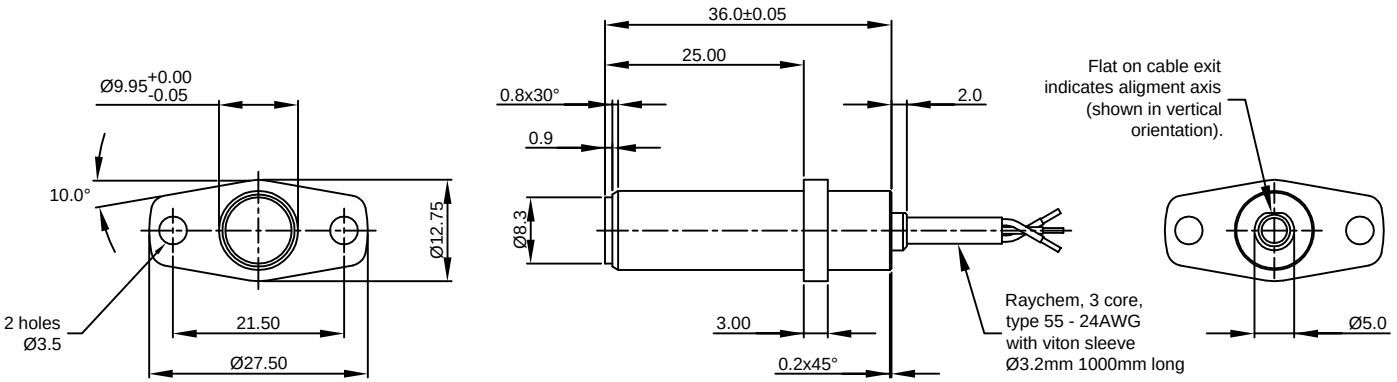
Differential Hall Effect speed sensor

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.

Other models in this range

DSS710X - 9mmØ sleeve case
DSS720X - M10 threaded stainless steel case

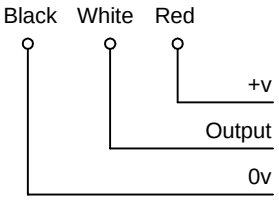


Electrical & Mechanical Information

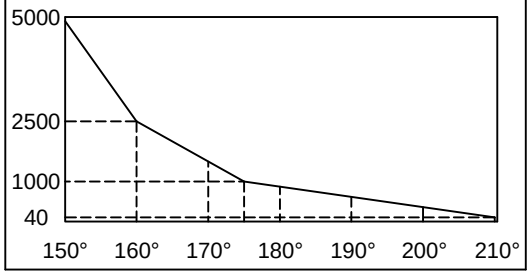
Frequency response	15 to 20,000	Hz
Supply voltage	5 to 24 ±5%	Volts
Supply current	<10	mA
Output current Max	35	mA
Output type	Open collector	
Air gap Max	1.5	mm
Operating temp. range (Continuous)	-40° to +175°	°C
Environmental	Sealed	
Case material	Aluminium HE30	

Note 1: Incorrect wiring may cause internal damage to the sensor.

Electrical Connections



Max operating temp (°C) vs Life (Hrs)



Ordering Information

DSS730X

0 = with pull up resisitor to supply voltage

1= no pull up resisitor

Active sensors

sales@activesensors.com