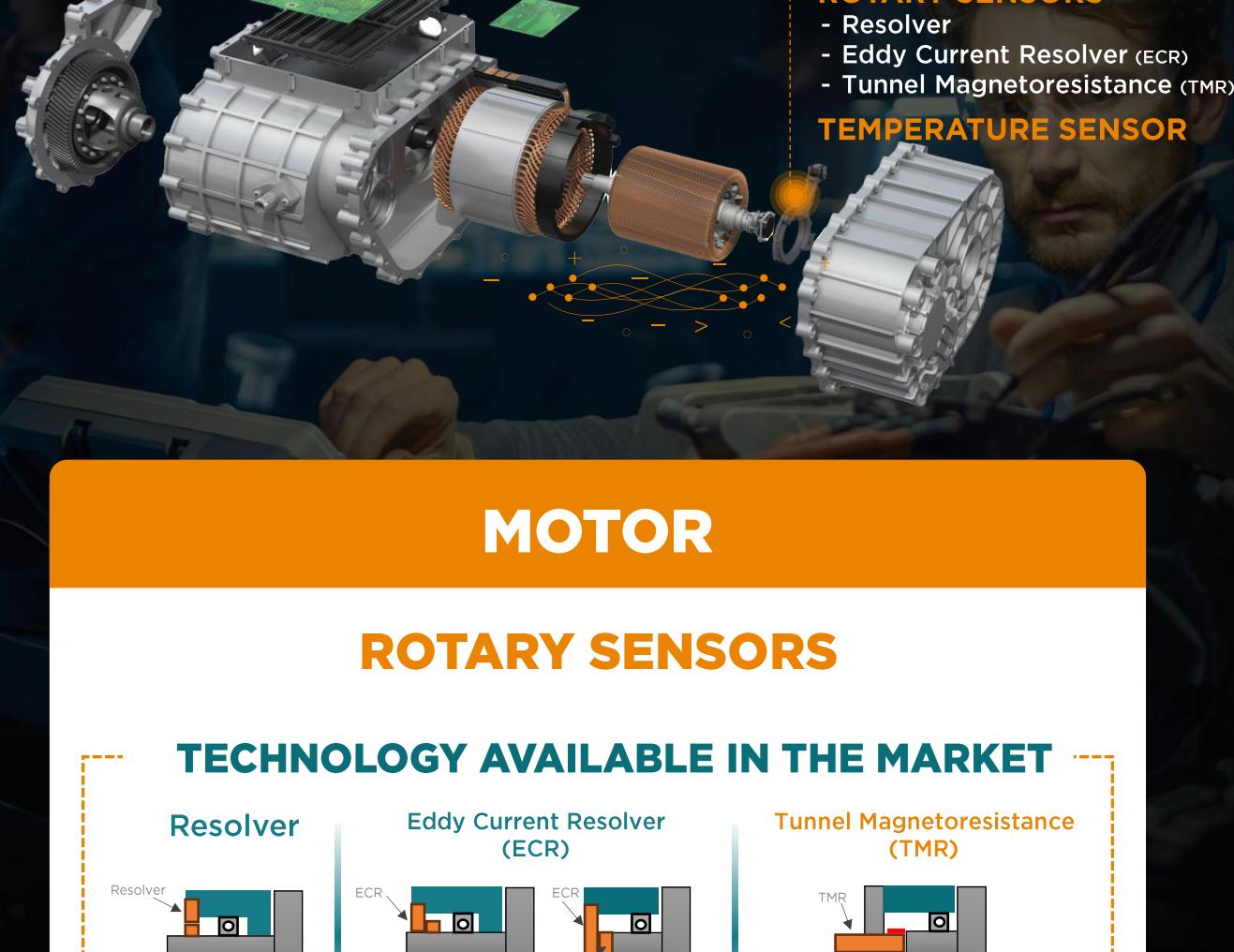


SENSOR SOLUTIONS FOR E-MOTOR

A strong track record of providing complete eMotor sensor solutions globally. Our commitment is to deliver not just parts, but a partnership that anticipates and solves for the complexities of eMotor development.



MOTOR

ROTARY SENSORS

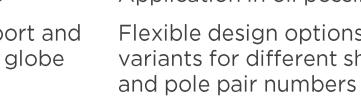
TECHNOLOGY AVAILABLE IN THE MARKET

Resolver



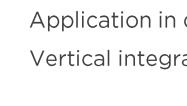
Through Shaft

Eddy Current Resolver (ECR)



Through Shaft

Tunnel Magnetoresistance (TMR)



On Shaft

State of the art technology

Future Technology

RESOLVER



Reliable and field proven technology

Temperature range: -40°C up to +150°C

High Accuracy: +/-1° electrical

ASIL D on system level

Oil or glycol compatible

Specialized design support and manufacturing over the globe

Combined design with temperature sensor possible

Robust against external fields

Eddy Current Resolver (ECR)



Small size & Light weight

Temperature range -40°C up to +150°C

High Accuracy: +/-1° electrical

Standard ASIL C, alternative ASIL D possible

Application in oil possible

Flexible design options, different variants for different shaft sizes and pole pair numbers possible

Customized pigtail cable versions or integrated connector interface

Standard analog output, digital also possible

Tunnel Magnetoresistance (TMR)



Miniature size & Light weight

Temperature range -40°C up to +150°C

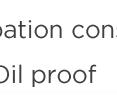
High Accuracy: +/- 0.25° mechanical

Standard ASIL C, alternative ASIL D possible

Application in oil possible

Vertical integrated solution

RESOLVER CUSTOMIZATIONS

Small	Medium	Large	Total Custom
			
			
			

TEMPERATURE SENSOR

Wide Operating Temperature Range : -40°C to 200°C

1% Accuracy at 100°C

Fast Response Time

Miniaturized Component Design

Automotive qualified: AEC-Q200 Rev E

Dissipation constant 1.3mW/C

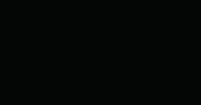
ATF Oil proof

High Dielectric strength

MOTOR CONTROL UNIT

INVERTER

TEMPERATURE SENSOR



Ni100

Automotive qualified according to AEC-Q-101

Small SMD package SOT 23 for short step response

Comply with former DIN 43760 standard Class B

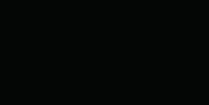
Good linearity between resistance and temperature

Wide Temperature Range (-55°C to +160°C)

Package MIL-S1 certified (Moisture Sensitivity

Level in JEDEC J-STD-020)

HUMIDITY SENSOR



HTU31

Precise engineering

Fast response time

High performance

Digital & analog versions

Multiple I²C addresses

Small footprint 2.5x2.5x0.9mm



Contact us

EVERY CONNECTION COUNTS