

CANbus Rotary Encoder

DIGITAL ADVANCED SENSORS **DAS**

JRS CE FC

CANopen SAE J1939

To respond CAN that becoming mainstream communication standard for mobile vehicles, new-generation sensor series which perfectly applicable for CANopen and SAE-J1939 are now released.

Introduce the series of high reliable CANbus sensors exceed performances of current analog and serial communication

- Hall Effect applied non-contacting rotary encoder
- Perfectly applicable with CANopen and SAE-J1939
- High stability ferrite permanent magnet adopted
- High strength and environment-proof metallic housing



General Specifications

Item	Specification
Measuring Range ¹⁾	0 ... 360 deg
Resolution	0.022 deg
Non-Linearity	1% FS
Response	<0.1 sec
Output	CANopen SAE-J1939
Power Source	10 ... 30VDC
Current Consumption	<60mA @12Vdc
Operating Temp.	-20 ... +85 celsius
Waterproof	IP65
Mechanical Life ²⁾	Semi-permanent
Dimensions	ø110 X H44mm
Weight	390g
Cables	4C, AWG 20, MG610331-5

¹⁾ Measuring Range : Repetitive clockwise 0...360 from Zero-mark³⁾.

²⁾ Mechanical life depends on bearing life.

³⁾ Zero-mark : Red marked on image.



Ordering Code

Format : JRS-(1)

(1)	CO	CANopen protocol
	CJ	SAE-J1939 protocol

CAN Protocol

- 1) Bitrate : 500 kbps
- 2) Transmit Interval : 10_{ms}
- 3) Transmit Start : Automatically
- 4) Default COB ID (HEX) : 0x0A
- 5) Output data includes only angular data.
- 6) Refer each protocol manual for CANopen and SAE-J1939.

※ [CANopen Inclinometer Protocol](#)

※ [SAE-J1939 Sensor Protocol](#)

Wiring Connections

JRS is wired by MG610331-5 plug (Korea Electric Terminal Co., Ltd.). The plug can be deleted when placed order.

	Color	RS485
JRS	RED	V+
	BLACK	GND
	GREEN	CAN H
	WHITE	CAN L

Options

- 1) Receptacle P/N : MG64REC
- 2) COB-ID : Settable within HEX 201...27F

NOTES

- 1) *Ground connection is recommended in noise occurred environment.*
- 2) *Check wiring connections before use.*
- 3) *12 months warranty is provided after released. Warranty provided only in case of using for designed purpose correctly.*
- 4) *Specifications, design and components can be changed without prior notice to improve its performances.*

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