R360 CompactModule I/O module (truck, off-highway, railway)

8/12-channel I/O-module for mobile applications

If a central controller cannot be used in a mobile machine, decentralized input/output modules are employed. A decentralized structure enables installation of the electronics at the requested machine positions. Due to module networking via the powerful CAN network with the CANopen protocol for mobile use the application can be quickly implemented.

The metal CompactModules are fitted with M12 connectors which are widely used in industry. An extensive line of connection cables allows direct, easy and reliable connection of sensors and actuators. The bit-rate and node number are directly set via CANopen commands or by means of integrated code switches in the terminal chamber. For networking the CAN interface via wired drop cables M12 connections and terminating resistors are available. Parameter setting of the inputs and outputs enables use in different applications.

Due to the high protection rating the modules can be directly used in areas with dirt and splashing water.
The compact modules are designed specifically for the requirements of these applications and provide the following features:

- Housing: diecast zinc
- High mechanical stability due to full potting of the housing
- High protection rating IP67
- Power supply 10 V_{DC} to 32 V_{DC}
- Switching current: 2/4 A
- The functions of inputs and outputs (binary/analog) can be configured
- Hydraulic valves can be triggered directiy (closed-loop control)
- Parameterizable PWM outputs
- High noise immunity
- M12 sockets
- CE, e1, approval for railway applications (EN 50155)

CompactModule metal, CR2031

- 8 digital outputs (4 A), can also be configured as:
  PWM output
  Output with current measurement

Compact Module metal, CR2032

- 4 digital inputs
- 4 analog inputs, can be configured as:
  Analog input, voltage
  Analog input, current
- 8 digital outputs (2 A), can also be configured as:
  PWM output

CompactModule metal, CR2033

- 4 digital inputs
- 4 analog inputs, can be configured as:
  Analog input, voltage
  Analog input, current
- 4 digital outputs (4 A), can also be configured as:
  PWM output

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Features

NMT	NMT slave
Error control	Node guarding Life guarding Heartbeat producer
Boot-up	Yes
Node ID range	From 1 to 127
Node ID	Hardware switch Software switch Proprietary
CANopen bit-rates	20 kbit/s 50 kbit/s 125 kbit/s 250 kbit/s 500 kbit/s 800 kbit/s 1 000 kbit/s
Type of bit-rate adjustment	None
RPDOs	2
TPDOs	2
PDO modes	Event-triggered Triggered by event-timer Synchronous (cyclic)
PDO linking	Yes
PDO mapping	Variable
SDO server	1
SDO client	No

Emergency producer	Yes
Emergency consumer	4 messages
Sync producer	No
Sync counter	No
Time stamp	No
Additional functions	Self-starting device Program download
CANopen version	CiA 301 V 4.0.2
Frameworks	CiA 302
Device profiles CiA 401: CANopen device profile for generic I/O modules	
Certified	No
Availability	In stock