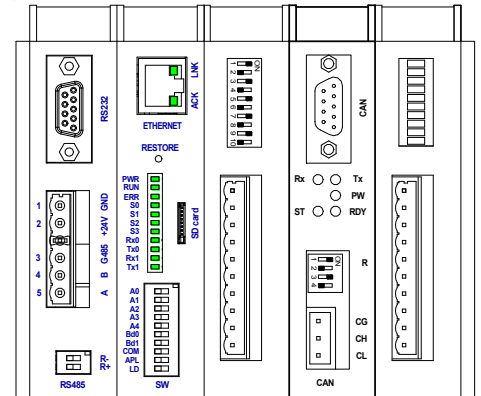Industrial
Control Systems

AD-CAN

CAN bus communication module

- **One CAN 2.0 line with galvanic separation**
- **CANopen DS301 protocol**
- **Transmission rate 10 kbps to 1 Mbps**
- **Stacked connection to AD-CPU, mounting on DIN rail 35 mm**

TECHNICAL DATA

Communication	1 × CAN
CAN controller	Intel AN82527 (CAN 2.0)
Data transmission rate	10 kbps to 1 Mbps
Number of messages	Max. 15 simultaneously
Supported application protocol	CANopen according to CiA 3A / DS301 (Minimum capability device)
Galvanic separation	Yes [1]
Overvoltage protections	Suppressor diodes
Power supply	Internal
Max. consumption from internal power supply	60 mA from 24 V DS power supply
Others	
Max. number of modules in the set	1
Location of the module in the system	Without limitations [2]
Connection	Connector D-Sub DE-9 according to CiA DS102 Connector WAGO 231-303 [3]
Ingress protection rate	IP20
AD-CAN operating temperature range	0 °C to 70 °C
AD-CAN/I operating temperature range	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	DIN rail 35 mm
Weight	130 g
Dimensions (w × h × d)	(25 × 104 × 96) mm

[1] Insulation strength 500 V AC / 1 minute, galvanic insulation must not be used for safe and unsafe parts separation.
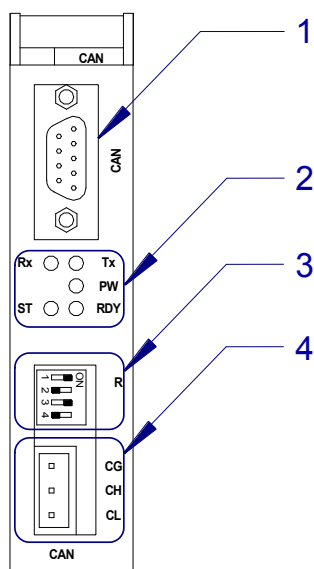[2] If modules with extended bus are present in the set, the AD-CAN must be located behind this modules.
[3] CAN line can be utilized at one time only on one of the connectors.

ORDERING INFORMATION

AD-CAN	CAN bus communication module, connector WAGO 231-303
AD-CAN/I	CAN bus communication module within temperature range of -40 °C to 70 °C, connector WAGO 231-303

MODULE DESCRIPTION

Legend

Number	Meaning
1	D-Sub DE-9 connector with CAN line
2	Signal LED
3	DIP switches
4	WAGO 231-303 connector with CAN line

D-SUB DE-9 WIRING (according to CiA DS102)

Pin	Meaning
2	CAN Low (CAN-)
7	CAN High (CAN+)
3, 6	Ground

WAGO231-303 WIRING

Label	Meaning
CG	Ground
CH	CAN High (CAN+)
CL	CAN Low (CAN-)

MEANING OF DIP SWITCHES

Switch	Status	Function
1-4	ON	Terminating resistors connection
1-4	OFF	Terminating resistors disconnection

MEANING OF SIGNALING LEDs

Meaning of signalling LEDs is described in separate documentation. Application note AP0007 – Communication in DIOCAN network.

Detailed information can be found in operational manual (**adis_g_en_xxx.pdf**). Documentation and examples can be downloaded from www.amitomation.com web site.