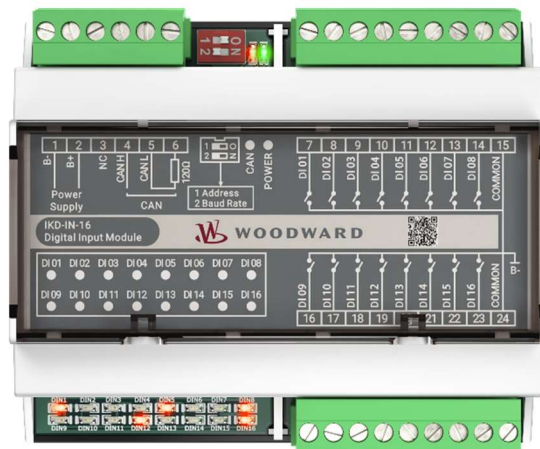


IKD-IN-16



IKD-IN-16 Unique Features

- ✓ 16 configurable digital inputs
- ✓ plug-n-play connection with Woodward power management controls
- ✓ easy integration with PLC
- ✓ compact remote I/O with IKD-OUT-16
- ✓ Shorter lead time

Digital Input Expansion Module

DESCRIPTION

The IKD-IN-16 is a smart solution to increase number of digital inputs to Woodward power management controllers or apply it as a remote input module in your PLC based control system. It is possible to connect one or more IKD-IN-16 modules (see table Related Products below).

The IKD-IN-16 input status are transferred over the CAN bus to a higher-level controller. Configuration of each input such as name, alarm class, NO/NC configuration, and time delay is performed in the main controller. The name and class are displayed on the connected genset controller's display. It requires no configuration tool as few parameters such as module address and CAN baud rate can be setup by onboard DIP switches.

FEATURES

- 16 configurable discrete inputs
- CAN bus communication to the higher-level controller
- The control unit evaluates the status of these discrete inputs and depending on the configuration of the control unit takes an appropriate action
- The IKD-IN-16 can be used with other manufacturer's controllers/PLCs. Consult product manual 37953 for information regarding the CAN bus data telegram
- DIP switches to configure device module number and CAN baud rate.
- Power, CAN, and DI status LEDs

Ordering Part Number

- 8440-2304

- Flexible remote input module. Works with
 - Woodward power management controls
 - PLC
- 16 discrete inputs
- Requires no configuration tool
- CAN bus communication
- CE/UKCA marked
- UL/cUL pending

SPECIFICATIONS

Power supply 12/24 V_{DC} (9 to 35 V_{DC})
 Intrinsic consumption max. 2 W
 Reverse voltage protection Yes

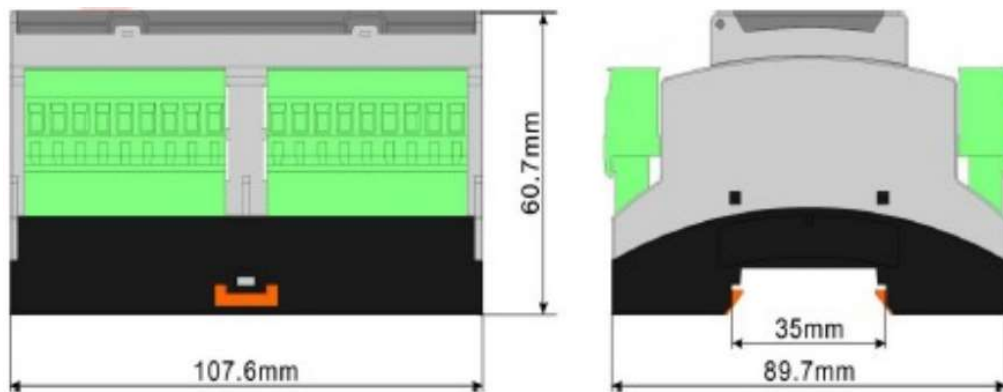
Ambient temperature (operation) -25 to 70 °C / -13 to 158 °F
 Ambient temperature (storage) -30 to 80 °C / -22 to 176 °F
 Ambient humidity 93%, non-condensing

Discrete inputs non-isolated
 Input range 12/24 V_{DC} (0 to 60 V_{DC})
 Common terminal connected to battery minus (B-)

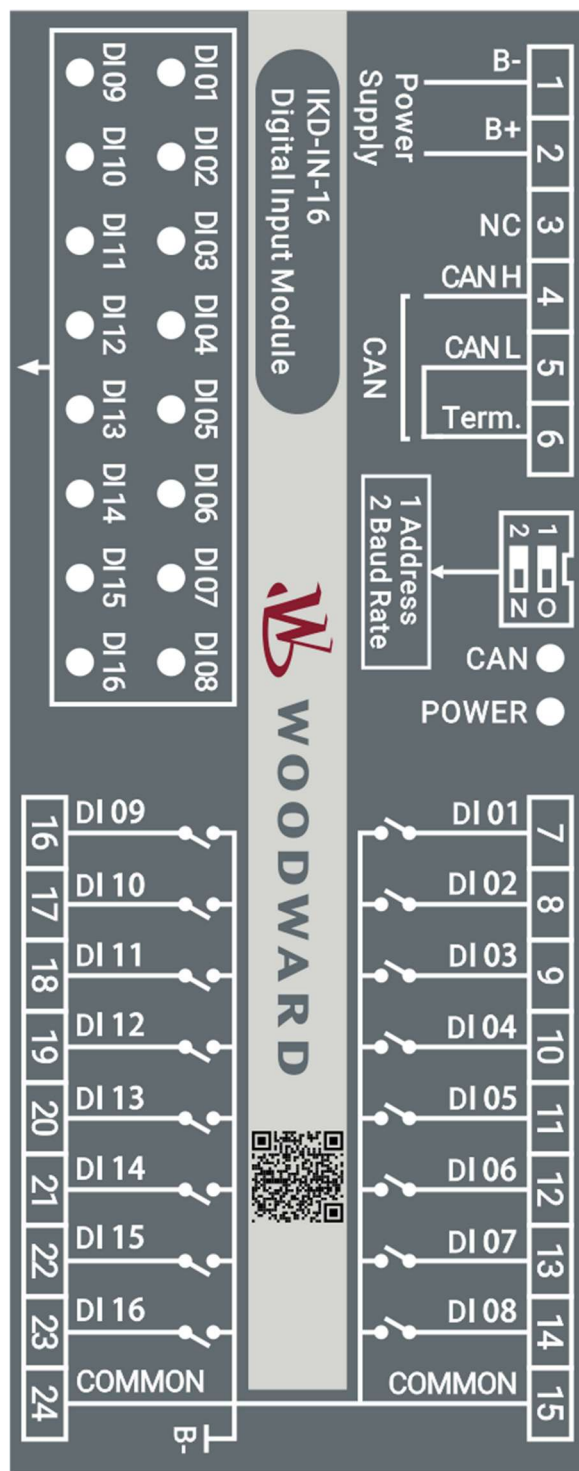
CAN Interface isolated
 Insulation voltage (continuous) 2500 V_{DC}
 Version CAN bus
 Internal line termination yes (terminals 5,6)

Housing DIN-rail mounting Plastic housing
 Dimensions WxHxD 107.6 × 89.7 × 60.7 mm
 Connection screw-plug-terminals 2.5 mm²
 Protection system IP20
 Weight approx. 250 g
Disturbance test (CE) tested according to applicable IEC standards
Listings CE, UKCA, UL(Pending)

DIMENSIONS



TERMINAL DIAGRAM



RELATED PRODUCTS

- Supported power management controls

	Max. # of IKD-IN-16
easYgen-3000XT (GC-3400XTP1)	2 (1)
easYgen-3400/3500P1 and -3100/3200P2	2
easYgen-3400/3500P2 and -3100/3200P1	1
easYgen-2000	1
easYgen-1500/1700/1800	1
easYgen-800	1
DTSC-200 and -200A	1

- Digital input expansion module **IKD-OUT-16** (Product spec #37954): P/N 8440-2305
- Digital I/O expansion module **IKD 1** (Product spec #37171): P/N: 8440-2116



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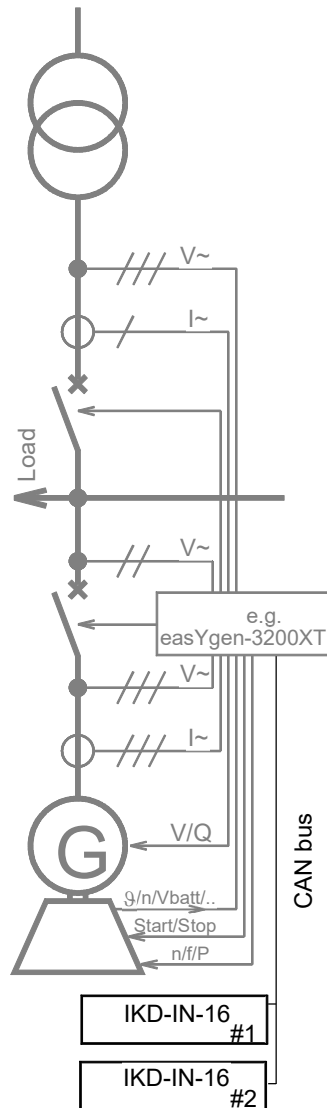
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For more information contact:

TYPICAL APPLICATION



The digital inputs are read by the IKD-IN-16 and transferred via the CAN bus to the control unit (incl. alarm class). Each alarm input may have a delay as well as the control logic (NO/NC) configured individually during set up. The status of the alarm input is monitored in the control device and will show the alarm text in its display. The alarm class assigned in the control device evaluates the alarm input and reacts accordingly. If a discrete input on the IKD-IN-16 is enabled, the control device displays a text message, and the control functions of the alarm class are executed (refer to according manual of the supported control devices).

➔ Product documentation site, <http://wwdmanuals.com/ikd-in-16>