



IKD 1

Digital I/O Expansion Board

APPLICATIONS

The IKD 1 is a smart solution to increase numbers of digital I/O's to Woodward easYgen and DTSC-200 series controllers.

It is possible to connect one or more IKD 1 units to the power management controllers (see table *Related Products* below).

Each of the inputs can be assigned a name, alarm class, NO/NC configuration and time delay. The name and class are displayed on the connected genset controller's display.

The IKD 1 output relays are controlled over the CAN bus connection from the main genset controller. Configuration of the IKD 1 is performed through the relay manager in the main controller and transmitted to the IKD 1.

A direct configuration cable (DPC) and software can be purchased for use with a PC or laptop and may be advisable for extensive configuration applications or where several similar units are to be set up.

Related Products

	max. # of IKD 1
• easYgen-1000 series	2
• easYgen-2000 series	2
• easYgen-3100P1/3200P1	2
• easYgen-3100P2/3200P2	4
• easYgen-3400/3500P1	4
• easYgen-3400/3500P2	2
• easYgen-3000XT (GC-3400XT-P1)	4(2)
• DTSC-200 and -200A	2
• Digital output expansion module IKD-OUT-16 (Product Spec #37954): P/N 8440-2305	
• Digital input expansion module IKD-IN-16 (Product Spec #37955): P/N 8440-2304	

DESCRIPTION

Features

- 8 configurable discrete alarm inputs
- 8 configurable FORM C relays with potential free contacts
- Configurable delays for each input
- CAN bus communication
- The discrete inputs transfer their status via CAN bus to the control unit.
- The control unit evaluates the status of these discrete inputs coming from the IKD 1 and depending on the configuration of the control unit, will take the appropriate action.
- The control unit can send commands via the CAN bus to remotely control the output relays of the IKD 1.
- The IKD 1 can be used with other manufacturer's controllers. Consult product manual 37135 for information regarding the address assignments of the CAN bus interface.

Product Number P/N

- 8440-2116

- 8 discrete inputs
- 8 relay outputs FORM C
- PC configurable¹⁾
- CAN bus communication
- Microprocessor technology for accurate, repeatable and reliable operation
- CE marked
- UL/cUL Listing

¹⁾ Use software *LeoPC* for configuration

SPECIFICATIONS

Power supply 12/24 Vdc (6 to 36 Vdc)
 Intrinsic consumption max. 3 W
 Ambient temperature -40 to 85 °C
 Ambient humidity 95 %, non-condensing

Discrete inputs isolated
 Input range 12/24 Vdc (6 to 32 Vdc)
 Input resistance approx. 6.8 kΩ

Relay outputs isolated
 Contact material AgCdO
 Load (GP) 2.00 Aac@250 Vac
 2.00 Adc@24 Vdc / 0.36 Adc@125 Vdc / 0.18 Adc@250 Vdc
 Pilot duty (PD)
 1.00 Adc@24 Vdc / 0.22 Adc@125 Vdc / 0.10 Adc@250 Vdc

Service interface
 Version RS-232

CAN interface isolated
 Insulation voltage (continuously) 100 Vac
 Insulation test voltage (≤ 5 s) 1,000 Vac
 Version CAN bus

Housing
 DIN-rail mounting extrusion profile Um 122
 to snap-on on a DIN rail/C-profile
 168 × 128 × 51 mm

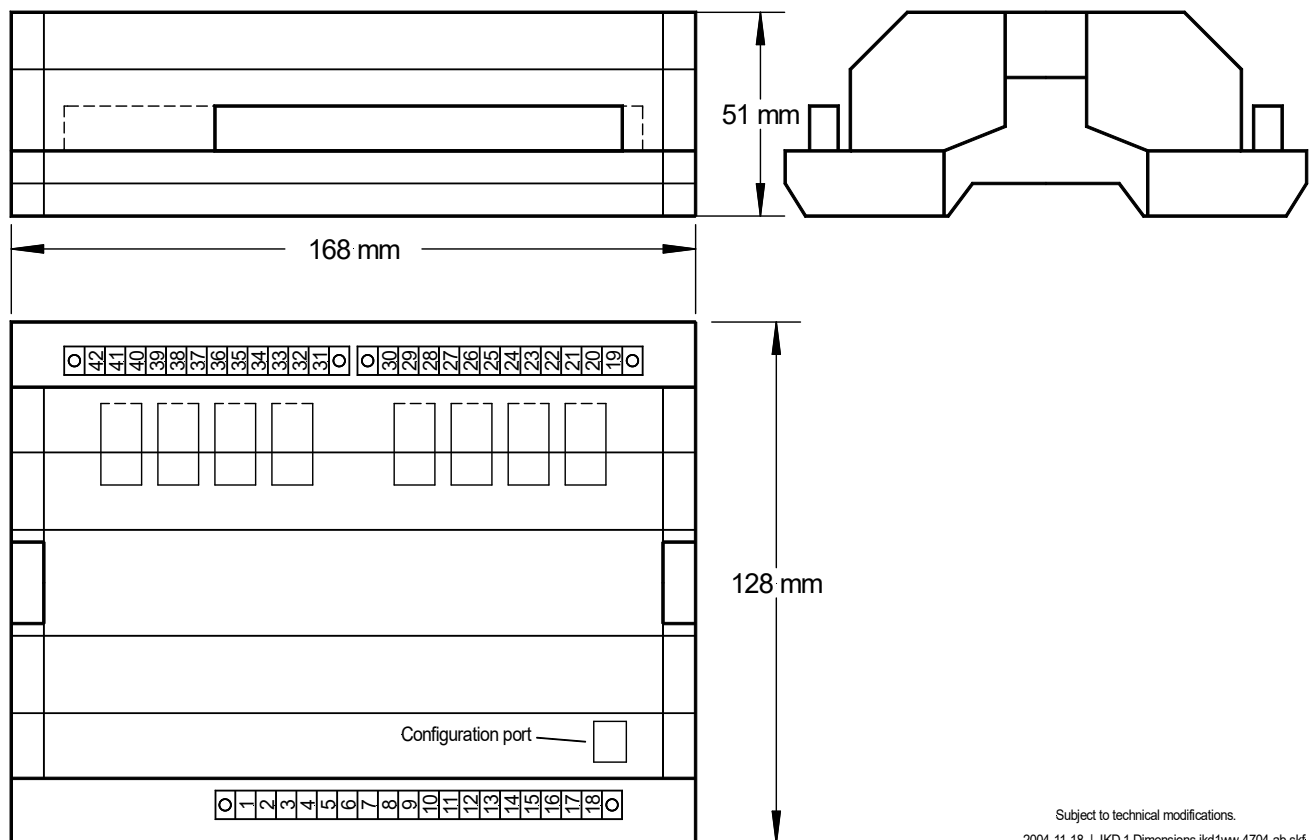
Connection screw/plug terminals 2.5 mm²

Weight approx. 360 g
 Protection system IP 20

Disturbance test (CE) tested according to
 applicable EN guidelines

Listings UL/cUL

DIMENSIONS



Subject to technical modifications.

2004-11-18 | IKD 1 Dimensions ikd1ww-4704-ab.skf

