

IKD 1

I/O Expansion Board

APPLICATIONS

The IKD 1 is an "Intelligent Terminal" or "Extension Board". It allows an additional 8 discrete inputs and 8 relay outputs to be connected, via CAN bus, to other Woodward products such as the GCP-30 Series controller (with Option SC06). It is possible to connect up to two IKD 1 units to one GCP-30 (refer to product specification 03240).

Each of the inputs can be assigned a name, alarm class, NO/NC configuration and time delay. The name and class are then displayed on the controller face digital readout panel.

The IKD 1 output relays are controlled over the CAN bus connection from the main controller (e.g. GCP-30 Series). 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.

DESCRIPTION

Features

- 8 configurable discrete alarm inputs
- 8 configurable relays
- 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

- 8440-1041

- 8 discrete inputs
- 8 relay outputs
- PC configurable
- CAN bus communication
- Microprocessor technology for accurate, repeatable and reliable operation

SPECIFICATIONS

Power supply 12/24 Vdc (6 to 36 Vdc)
 Intrinsic consumption max. 6 W
 Ambient temperature -20 to 70 °C
 Ambient humidity 95 %, non-condensing

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

Potential-free outputs isolated
 Contact material AgCdO
 Load (GP) (V_{Cont, relays}) 24 Vdc@2 Adc
 Pilot duty (PD) (V_{Cont, relays}) 24 Vdc@1 Adc

Service interface
 Version RS-232

CAN interface isolated
 Insulation voltage 1,500 Vdc
 Version CAN bus
 Internal line termination not available

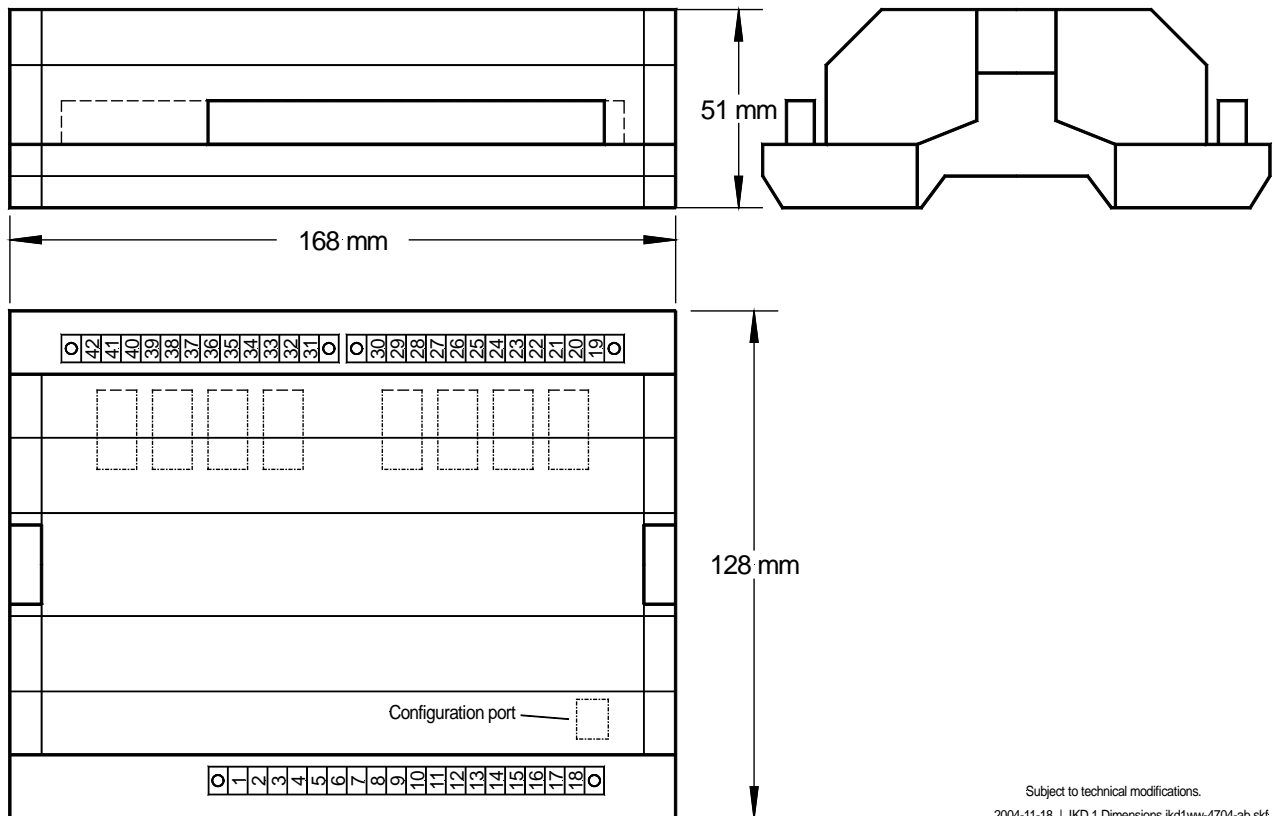
Housing
 DIN-rail mounting extrusion profile Um 122
 to snap-on on a DIN rail/C-profile
 168 × 128 × 51 mm

Connection screw/plug terminals 2.5 mm²

Weight approx. 360 g
 Protection system without housing: IP 20

Disturbance test (CE) tested according to
 applicable EN guidelines

DIMENSIONS



Subject to technical modifications.
 2004-11-18 | IKD 1 Dimensions ikd1ww-4704-ab.skf

