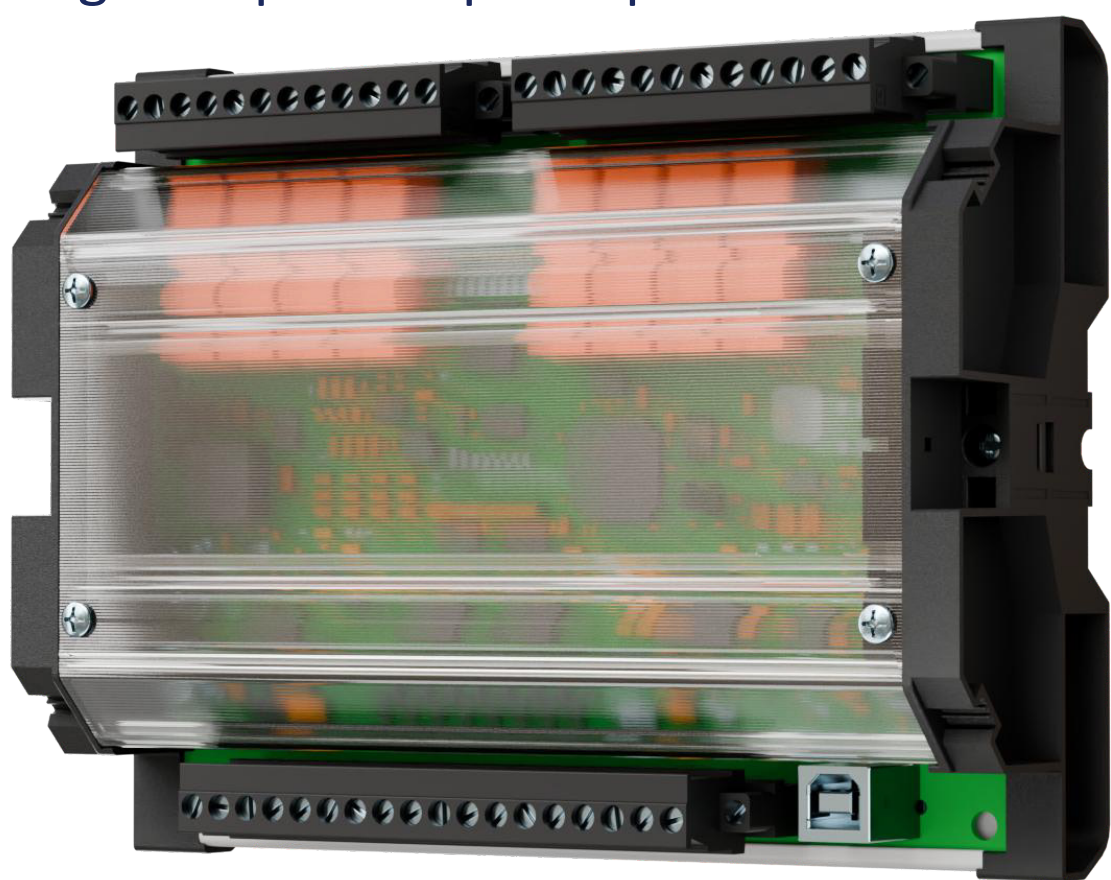


IKD2M-8/8

Digital Input-Output Expansion Module



- › 8 configurable Digital Inputs
- › 8 configurable Digital Outputs
- › Plug-and-play integration^{*1}
- › High packing density
- › Third-party PLC compatibility

*1 first IKD2M-8/8 module is plug-and-play

The IKD2M-8/8 offers a versatile and intelligent solution for expanding the number of digital inputs and outputs on Woodward power management controllers or serving as a remote I/O module within your PLC-based control system.

The input status of the IKD2M-8/8 is transmitted to the main controller via the CAN bus connection, while the output relays are controlled in the same manner from the main controller. Output actuation is managed by the LogicsManager™ within the main controller, which sends the corresponding commands to the IKD2M-8/8. The system offers a straight forward Plug-and-Play setup for the first IKD2M-8/8 device. However, if additional IKD2M-8/8 devices are integrated into your application, the CAN module's address must be configured. This can be done easily using a USB connection, a laptop, and Woodward's free Toolkit software.

Related Products

SUPPORTED POWER MANAGEMENT CONTROLS	MAX. # OF IKD2M-8/8
easYgen-3000XT	4
Group Controller GC-3400XT-P1	2
LS-6XT-P1 (Package 1)	2
LS-6XT-P2 (Package 2)	4
easYgen-2000	2
easYgen-800/1500/1700/1800	2
DTSC-200 and -200A	2

- › 8 discrete inputs and 8 relay outputs Form-C
- › Effortless plug-and-play compatibility with Woodward power management controls
- › Configuration, if required, is easily done via a USB connection, a laptop, and Woodward's free Toolkit software
- › Space-efficient design
- › CAN bus communication enables integration with third-party PLCs (see product manual B45024 for CAN bus data telegram details)

› Certified Quality:   

PRODUCT SPECIFICATION B45033

IKD2M-8/8

Ordering Part Number
8440-2324
(connectors included)

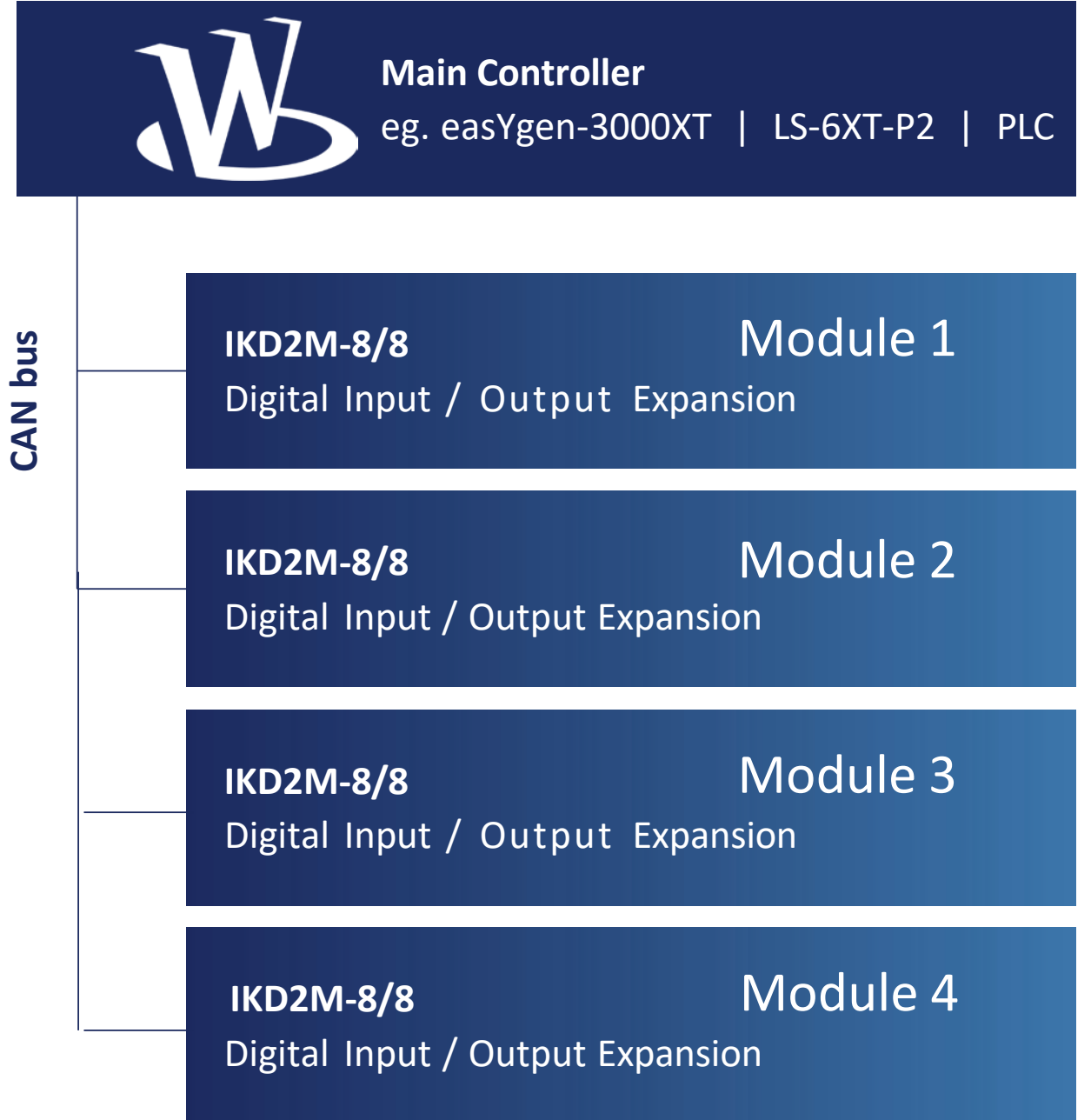
Spare Part - Connector Kit
10-015-874

Typical Application

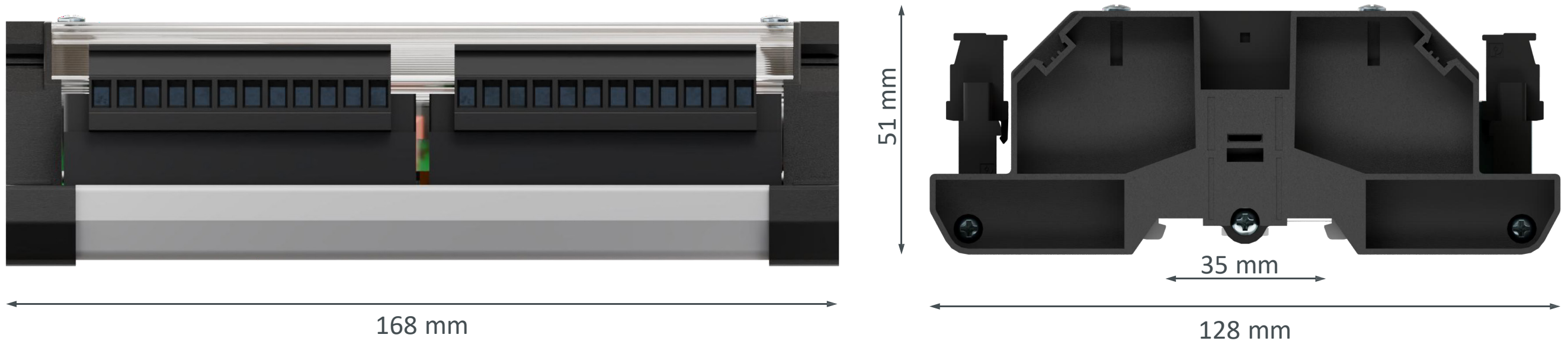
The monitoring and processing of **inputs** are configured through the main controller, enabling to set input names, alarm classes, Normally Open (NO) or Normally Closed (NC) settings, and delay times.

The control device's relay manager (LogicsManager™) controls the IKD2M-8/8 **output** relays.

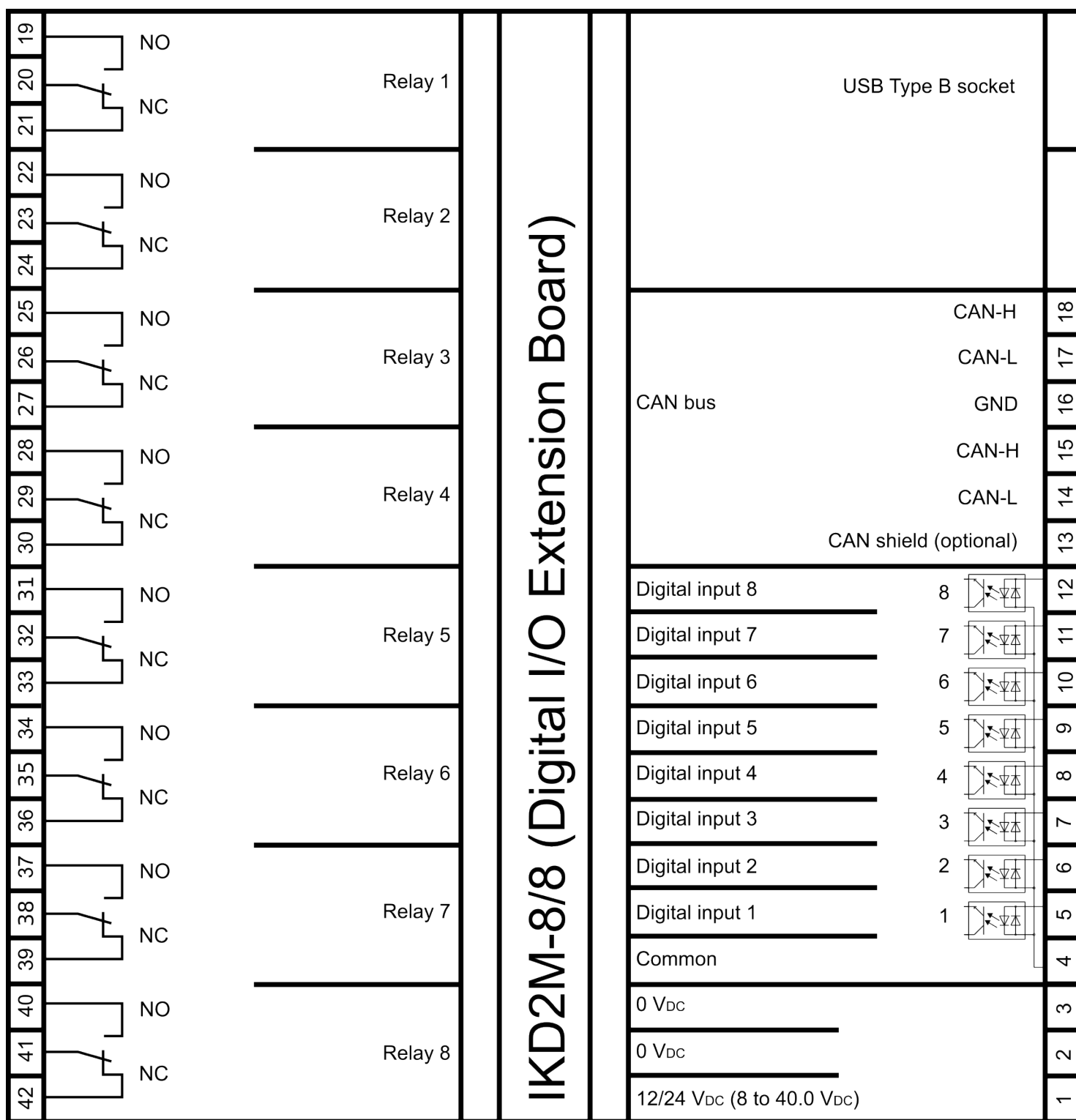
The control logic for each IKD2M-8/8 relay can be programmed individually in the control device by LogicsManager™ Command Variables.



Dimensions



Terminal Diagram



Subject to technical modifications

IKD2M-8/8 Wiring Diagram

PRODUCT SPECIFICATION B45033

IKD2M-8/8

Specifications

POWER

Power supply	12 / 24 V _{DC} (8 to 40 V _{DC})
Intrinsic consumption	Max. 4.5 W
Reverse voltage protection	Yes

AMBIENT

Ambient temperature	-20 to 70 °C / -4 to 158 °F
Ambient humidity	95% RH 12H, 20°C Condensing 6H

DISCRETE INPUTS

Discrete inputs	Galvanically isolated
Input range	12 / 24 V _{DC} (8 to 40 V _{DC})
Input resistance	Approx. 40 kΩ

RELAY OUTPUTS

Discrete output	Galvanically isolated
Contact Material	AgNi
Load (GP)	2.00 A _{AC} @ 250 V _{AC} General purpose 1.00 A _{DC} @ 24 V _{DC} VA load normally open contact 0.36 A _{DC} @ 125 V _{DC} UL: Not suitable for USA and Canada applications. Not evaluated by UL. 0.18 A _{DC} @ 250 V _{DC}
Pilot duty (PD)	AC B300




CAN INTERFACE

CAN Interface	Galvanically isolated
Insulation voltage (continuous)	100 V _{AC}
Communication	CAN bus

SERVICE INTERFACE

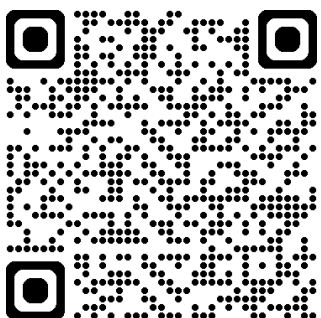
USB Type	USB Type B
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HOUSING

Housing DIN-rail mounting	Extrusion profile Um 122
Dimensions WxHxD	168 x 128 x 51 mm
Connection	Screw/plug-terminals 2.5 mm ²
Protection system	IP20
Weight	Approx. 430 g
Disturbance test (CE)	Tested according to applicable IEC standards
Listings	  

Product Documents and Files

<http://wwdmanuals.com/ikd2m/>



Commercial Support

industrial.salesPG@woodward.com

Technical Support

industrial.support@woodward.com

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