DIN-XP

Input module
with 16 operation or fault inputs

Front view

Features

- Inputs for 230V~
- Individual selection of operating input or fault input
- Load current / zero signal current principle for each input
- Setting of priority for all fault inputs
- Alarm delay time for all fault inputs
- Clear display of signal statuses and voltage statuses
- Lamp test and fault message acknowledgement
- Simple parameter settings
- Alarm relays for priority 1 and 2 available
- Selectable relay operating mode
- Plug-in screw terminals
- Large data memory for signal history
- Clear text designations in FRIGODATA XP per input
- Evaluation of Prio 1 and Prio 2 subsection faults from a gateway
- Direct connection of a CAN-USB to the service socket
- Connection to the Wurm system through a Wurm CAN communication bus (C-BUS) and FRIGODATA XP

Writing conventions

Symbol	Meaning
CAUTION	Avoid the described hazard: Otherwise **minor** or **medium** bodily injury or property damage will result.
WARNING	Avoid the described hazard: Otherwise there is danger from **electric voltage** that can lead to death or **serious** bodily injury.

For your safety

For safe operation and to avoid personal injury and equipment damage through operator error, always read these instructions, become familiar with the device, and follow all safety instructions on the product and in this document, as well as the safety guidelines of Wurm GmbH & Co. KG Elektronische Systeme. Keep these instructions ready to hand for quick reference and pass them on with the device if the product is sold.
Wurm GmbH & Co. KG Elektronische Systeme accepts no liability in case of improper use or use for other than the intended purpose.

Target group	These instructions are intended for "service technicians".
Intended use	DIN-XP is an input module with 16 operating or fault inputs.

WARNING
Danger to life from electric shock and/or fire!

- Switch off the power to the entire plant when carrying out installation, wiring or removal work. Otherwise a mains voltage and/or external voltage may still be present even if the control voltage is switched off. Always remove both power plugs (L and N).
- Only qualified electricians are permitted to wire the device.
- Use only the correct tools for all work.
- Check all wiring after connection.
- Take note of the maximum loads on all connections.
- Never expose the device to moisture, for example due to condensation or cleaning agents.
- Take the device out of operation if it is faulty or damaged and is therefore compromising safe operation.
- Do not open the device.
- Do not attempt to repair the device yourself. If the device requires repairs, send it in with an exact description of the fault.

CAUTION
Electromagnetic interference can cause faults!

- Always use shielded data cables and place them far away from power lines.

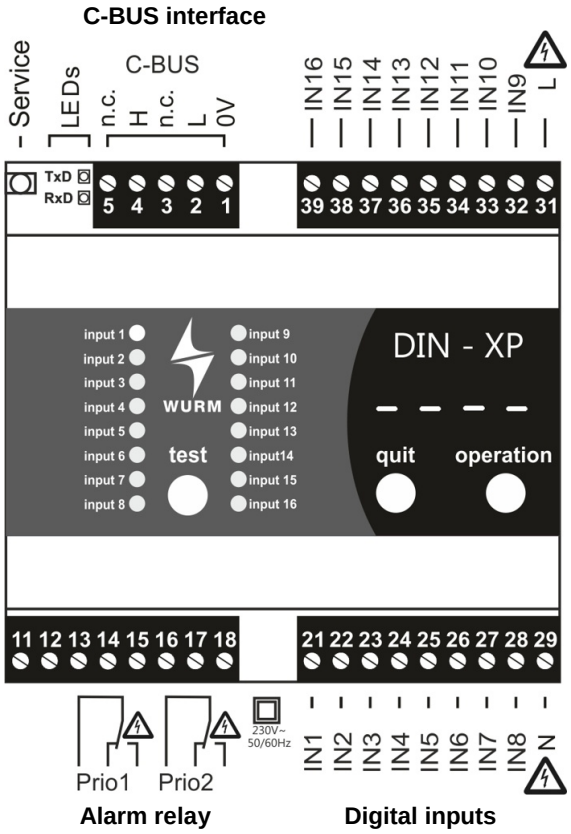
Wurm Infocenter paperless info

Software revisions and validity of documentation

Software version		
V2.7.0	2019-04	Documentation status

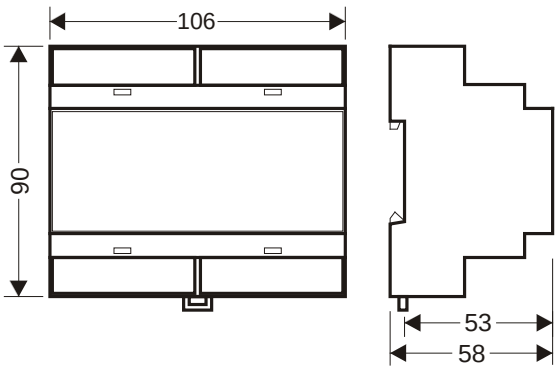
Any software versions not listed are special solutions for individual projects and are not described in detail in this document.
This document automatically ceases to be valid if a new technical description is issued.
Manufacturer: Wurm GmbH & Co. KG Elektronische Systeme, Morsbachtalstraße 30, D-42857 Remscheid
You can find more information on our website at www.wurm.de

Circuit diagram



Installing and connecting

⚠	**WARNING** **Danger to life from electric shock and/or fire!** ▪ Switch off the power to the entire plant when carrying out installation, wiring or removal work. Otherwise a mains voltage and/or external voltage may still be present even if the control voltage is switched off. Always remove both power plugs (L and N).



This device is designed for top-hat rail installation. The housing has standard dimensions and is also suitable for installation in fuse boxes and distribution cabinets.
The devices can be positioned next to one another without gaps.

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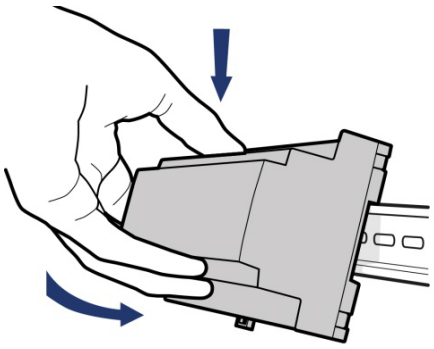

Place the device with the upper guide edge on the top-hat rail.
Then press the device gently downward until it engages with the fastening safety catch on the top-hat rail.

For wiring of the data lines, we recommend the use of standard telephone lines 2x2x0.8ø. up to lengths of 100m. The shielding must be grounded in the control cabinet. For cable lengths from 100m to 400m, shielded lines with braided sheathing should be used.

We recommend the use of shielded cables for sensor extension.

Cable length	Cross section
Up to 100m	0.75mm²
Up to 400m	1.5mm²

Technical data

Power supply	230V~, +10% / -15%, approx. 4VA
Digital inputs	16 x for 230V~ (common neutral conductor)
Output relay	2 x changeover contacts, 230V~, 4(2)A
Central unit	Single-chip microcomputer, data memory
Monitoring system	Self-monitoring of data memory and microcomputer
Communication	3-wire CAN bus interface with integrated power supply, galvanically isolated, service socket
Gateway types	The device is supported by the gateways: Multigate, from V1.0 CMD300, from V1.0 GTW-LAN 2.1 Global fault evaluation is supported by the gateways: Multigate, from V2.4 CMD300, from V1.0 GTW-LAN 2.1
Dimensions	(WxHxD) 106 x 90 x 58mm (DIN 43880)
Fastening	Top-hat rail TH 35-15 or TH 35-7.5 (DIN EN 60715)
Ambient temperature	Operation: 0...+55°C, storage: -25...+70°C
Weight	About 450g
CE conformity	– 2014/30/EU (EMC Directive) – 2014/35/EU (Low Voltage Directive) CE
EAC conformity	– TR CU 004/2011 – TR CU 020/2011 EAC
	RoHS II
Valid from	Version 2.7.0