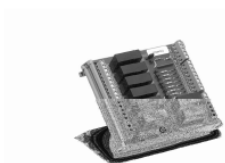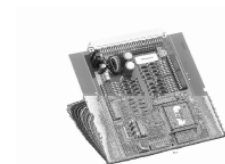# System accessories

Order-No. RB08

Relay board with 8 relay
- 8 potential free change over contacts are provided with screw terminals
- controlling via active-low signals (e.g. alarm outputs) by the MCU
- with LEDs for setting-off control
- Technical specification:
  Operating voltage: 21-28 Vdc
  Standby current: 5 mA
  Alarm current: 30mA per relay
  Contact data: 250V/5A per switch
  Dimensions (H x W): 97,5 x 113 mm

Order-No. AM32

Alarm module 32-OC
- CPU with 32 outputs for zone alarms
- Installed inside FCP as plug-in or externally through connector PCB (max. 20m distance)
- Application: mimic panel or controlling outputs in case of fire
- Addressable by dip-switch. This enable to use several modules.
- Technical specification:
  Operating voltage: 21-28 Vdc
  Standby current: 30 mA
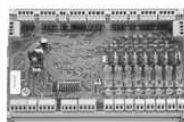 Interface: IIC-Bus and RS-232
  OC-outputs: low active, max 24V/90mA

Order-No. OM04

Monitored 4 outputs module for sounder/beacons
- PCB controlling 4 monitored outputs for signal transmitter
- Mounted inside or outside MCU
- Connection for LEDs to display the activation
- Outputs lines monitored for short-circuit or break
- One LED per output signalling fault condition
- Application: evacuation sounders
- Each line fused with 400mA
- Technical specification:
  Operating voltage: 21-28 Vdc
  Standby current: 58 mA
  Alarm power: 400mA pee output (24VDC)
  EOL resistors:1kOhm / 1W per output
Dimensions (H x W): 125 x 130 mm

Order-No. OM08

Monitored 8 outputs module for sounder/beacons
- PCB controlling 8 monitored outputs for signal transmitter
- Mounted inside or outside MCU
- Connection for LEDs to display the activation
- Outputs lines monitored for short-circuit or break
- One LED per output signalling fault condition
- Application: evacuation sounders
- Each line fused with 400mA
- Technical specification:
  Operating voltage: 21-28 Vdc
  Standby current: 58 mA
  Alarm power: 400mA pee output (24VDC)
  EOL resistors:1kOhm / 1W per output
Dimensions (H x W): 175 x 107,5 mm

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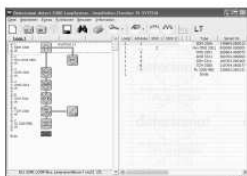**Order-No. LCD933**

LCD Repeater display, 10mm font size, DBM
• Version extra flat design housing composed of brushed stainless steel
• Foil front plate with MCU-design, colour RAL 9007
• LCD fire indication panel with 4 x 20 symbols and 10mm font size
• Buzzer, collective-LEDs for alarm, fault and switch off
• Integrated CPU board with Bit bus-interface
• Texts stored in MCU are automatically transferred to this repeater. No further programming required
• Technical specification:
   Operating voltage: 21-28 Vdc
   Standby current: 129 mA
   Interface: Bit Bus
   Full range: max. 13,2 km
   Speed: max. 375 kBaud
   Display: 4 lines, 20 characters each, font size 10mm
   Dimensions (H x W x D): 295 x 240 x 43 mms

Order-No. ILP933

Buil-in thermal printer
• for all types of MCU (301,304,310,316)
• controlled by RS232 from main control unit
• printer with 24 characters per line
• 58mm per width incl. controller, 8k RAM memory
• with black front completely mounted and tested in MCU

Order-No. TM933

Telephone Modem for MCU
• telephone modem
• directly connected to MCU
• completely installed and configured
• transmission to PC at 9600 Baud
• power supply included
• telephone connection has to be available in proximity

Order-No. I-Check

Windows-based I-Check service, diagnosis and installation SW
• Powerful and easy-to-use software for servicing, diagnosis, management and installation
• Read out of entire system configuration
• Graphic display of:
- loop/line topology
- short-circuit
- interruptions
• Access to all data for each Profi Loop device:
- smoke measurement
- alarm status

Order-No. DBMTool

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DBM Tool programming software
• for PC or notebook
• software runs on Windows (Win95/98/2000/NT/XP)
• directly connection via RS232 to MCU
• incl. options for importing customer's specific texts and reading out event memory
• software version for panels without modem

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Order-No. DBM-SK Photograph not available	**DBM Tool programming software (Software Key)** • same sw as above but includes also: • remote operation and diagnosis (e.g. via telephone line) of MCU • option for programming MCU via modem • repetition of MCU onto monitor (1:1) • display of current messages and events • can be used with all control panels with a modem

Network accessories

Order-No. MIC833-1	**Display and remote control panel in wall mounting housing**
	• Display and control all connected MCUs within a network
	• wall mounting housing covered with foil, built-in keyboard incl. numeric keypad and 4 lines LCD
	• connected to the fire detection system with Bit bus data cable
	• delivery includes Bit bus interface in a surface mounting housing made of steel sheet
	• strictly necessary as a coordinating processing unit in combination with a central unit-network
	• option: transmission unit (TU) interface
	• Technical specification:
	   Operating voltage: 21-29 Vdc
	   Current consumption: 132 mA / 196mA
	   Interfaces Bit bus: max. 375 KBaud / 13,2km cable length 2xRS232
	   Dimensions (H x W x D): 262 x 420 x 83 mm
	   Weight: 6 kg
	VdS approval No.: G 297072

Order-No. MIC833-2	**Display and control panel, 19" installation, 6 HE** • technical data as order-No. MIC833-1 • housing available on request

Order-No. LK xx MIC Photograph not available	**Language kit for MIC module** Panel firmware language kit. Check with Fittich technical support for language availability and delivery time. Please replaced XX with following codes: GB - English D - German IT - Italian CS - Serbian SK - Slovak CZ - Czech HU - Hungarian RU - Russian

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Order-No. LM32-INT

Detector zone-LED interface for ABF module
- to connect zone LEDs to main control panel
- Bit bus participant (addressable)
- max. 192 zone-LEDs per interface possible
- more than one interface in a network possible
- connected to 32 zones display LM32 as LED module
- max. 6 pieces per interface
- Technical specification:
  - Operating voltage: 21-29 Vdc
  - Current consumption: 90 mA
  - Interfaces Bit bus: max. 375 KBaud / 13,2km cable length 2xRS232
  - Dimensions (H x W): 130 x 125 mm
  - Weight: 0,3 kg w/o batteries

Order-No. BBI64

Bit bus interface
- for MCU304
- interlink for fire control panels or control units with a 4 wires RS485 interface
- up to 13,2 km at 62,5kBaud and up to 64 participant
- current consumption app.50 mA

Order-No. BBI64-PC

Bit bus PC-card
- PC card with integrated Bit bus interface for all IBM compatible PCs 386 and higher
- this Bit bus PC card is needed to connect the PC control file to MCU
- it allows a detailed analysis of a connected loop and the simulation of messages of all kinds.
- incl. analysing-software

Order-No. BBI-CPU

Bit Bus - CPU
- extension of Order-No. BBI-32/BBI-16
- Up to 8 extensions possible, max 256 outputs per Bit bus CPU
- Technical specification:
  - Operating voltage: 21-28 Vdc
  - Current consumption: 175 mA
  - Interfaces Bit bus: max. 375 KBaud / 13,2km cable length, 4 wires
  - Outputs: OC 24V / max. 90mA active low

Order-No. LCON-1

Fiber optic converter begin-end of network
- for MCU304 and MCU316, GST connector
- interlink for fire control panels or control units with a 62,5 (50)/125 µm fiber optic
- up to 2600m (1400m)
- current consumption app.200 mA at 24VDC

Order-No. LCON-2

Fiber optic converter daisy chain
- for MCU304 and MCU316, GST connector
- interlink for fire control panels or control units with a 62,5 (50)/125 µm fiber optic
- up to 2600m (1400m)
- current consumption app.200 mA at 24VDC

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Order-No. BBI-32

32 OC outputs extension module
• extension of Order-No.BBI-CPU
• Up to 8 extensions possible, max 256 outputs per Bit bus CPU
• Technical specification:
  Standby current: 17mA

Order-No. BBI-16

16 relays outputs extension module
• extension of Order-No.BBI-CPU
• Up to 8 extensions possible, max 128 outputs per Bit bus CPU
• Technical specification:
  Standby current: 16 mA
  Per relay: 2 mA

Order-No. BBI-R

Bit Bus Repeater
• repeater component extending Bit Bus signals longer than 400m
(375kBaud) or 1200m (62.5kBaud). Incl. Power unit 230VAC / 12VDC
• Technical specification:
  Operating voltage: 2230 VAC / 50-60 Hz
  Power consumption: 4 VA
  Interface Bit bus: 4 wires
  Dimensions (H x W x D): 122 x 66 x 54 mm

Order-No. BBI-M

Bit bus modem
• necessary for programming of the Bit Bus module via DBMTOOL
Order-No.BBI-CPU/BBI-32 and BBI-CPU/BBI-16

Order-No. BBI-C

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Sub-D-Bit bus cable 9 wire, Type 100
• Sub Bit Bus cable allows to program the loop device through a Bit Bus
modem Order-No.BBI-M

Order-No. VD Basic 11	**Visual Detect Basic Software**

Basic Graphic Maps software for one control panel and one workstation
• runs under Windows 2000/XP
• network compatible (server-client structure)
• modular structure
• full graphic display
• simulation tool (to test detectors and programmed system connections)
• comprehensive operator and rights management
• free programmable alarm management, procedure-plans
• automatic procedure-plans execution
• German, English, Russian languages
• print-out function (i.e. Fire Brigade routing card, unit location plans)
• system consists of a development and runtime interface
• help function for development and runtime interface
• bitbus-connection via internal ISA-bitbus card
• password can be modified durinf software log-on
• data encoding between and clients
• detector data can be generated and read-in via the import toll from dpt-program
• authorization for one workstation and one fire control panel
• stand-alone possible, as data transmission between server & client via TCP/IP protocol
• free creation of announcement
• route plans readable in all common CAD formats
• screenshots and route cards can be printed automatically or manually

Order-No. VD UE 1 — **Visual Detect User Expansion**
One workstation expansion kit - for the expansion of one workstation /user in the TCP/IP network

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• multiple workstations-expandable by one
• possibility to work in the network
• message notification and "send messages"
• operator specific classified messages and rights possible

Order-No. VD PE 1 — **Visual Detect Panel Expansion**
One fire control panel expansion kit - for the expansion of one panel in the BitBus network

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• expandable by one fire control panel unit each
• a maximum of 20 units can be managed
• operator specific classified messages and rights possible

Order-No. VD CE 1 — **Visual Detect Operation Expansion**
license kit - for the remote control function expansion via visualization software

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Order-No. VD M I — **Visual Detect Interface Management System**
license kit - interface to building management system (BMS) for data support

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