Fire control panel
detect 3004^{plus} and accessories

The modular fire alarm panel detect 3004plus is the basic version of a broad product portfolio of the system detect 3000.

Up to 20 fire control panels can be configured in a network.

Up to 4 loops with up to 126 devices can be connected per panel which enables system solutions with up to 10.080 addressable loop3000 -components.

A modern configuration and diagnostic tool ensures highest program stabilities and easy operation.

All parameters and selectable options are described with help functions to ensure an easy operation of the detect 3004

Features at a glance:

- Up to 20 fire control panels in one network

- Redundant version of the fire alarm system for highest reliability

- Optional modules allowing extinguishing control according to EN 12094

- Operation and programming via software tool dpt and diagnostic tool I-Check

- EN 54 conform, easy and clear display of all messages

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Fire control panel detect 3004 plus	detect 3004plus M DE
VdS approval G 203068	Art-Nr.: 32550

Microprocessor controlled modular fire control panel for the use with the loop3000 fire detection system components
Approved according to EN 54-2 A1 2006, EN 54-4 A1 2002, A2 2006 and VdS for the use according to VdE 0833.

- Large LCD, 160 x 80 points with backlight
- Integrated interface of foreign extinguishing systems using standard interface delete according to VdS
- Monitoring of the power supply and the battery according to EN 54-4 2002 A1/A2 2006 on monitoring card MC 3004
- Complies with EN 61000-6-3 class B for broadcast and is therefore suitable for use in sensitive areas
- Easy menu structure according to EN 54-2 A1 2006
- Integrated one-man-audit mode with clear logging and auditing counter
- Integrated display and control panel according to EN 54-2 A1 2006
- 2 slots for 2 loop - interfaces for the connection of up to 4 loops with a maximum of 126 loop3000 devices per loop and a maximum loop length of up to 3500 m
- Option for 2 conventional interface cards for controlling up to 16 conventional zones
- Extinguishing interface for controlling extinguishing and gas suppression systems in accordance to EN 12094
- Connections for a fire brigade interface for controlling the panels outputs, key deposit and transmission units
- Integrated interface connection for up to 63 additional network components
- Integrated RS 232-interface for the DPT programming software and the connection of printers and other peripheral equipment
- Integrated power supply 72 W according to EN 54 with 1 output for external devices rated at 24V DC/800mA
- 1 external output 24 V/400 mA monitored for sounding/signalling devices
- 3 potential free relais for fire and fault
- 3 inputs for collective signals
- Emergency power supply via 2 batteries 12 V up to 26 Ah
- Integrated ground fault monitoring
- Segmented front door allowing the quick assembly of LED indicator modules and printers
- Option for customised front logos
- Possibility for complete system redundancy with the CPU and loop interfaces
- Up to 128 programmable detector zones
- Additional up to 42 T-branches per loop possible
- Event log memory of up to 500 messages
- Programming of control logics and time dependent functions for the components of series loop3000
- Customized customer texts allowing up to a maximum of 20 characters
- Integrated alarm buffer and 2 detector/zone dependencies
- Time controlled changeovers of sensitivity levels of loop3000 detectors by day/night modes
- Software controlled disablements for zones and individual detectors via external inputs
- Ability to change and edit inspection and reaction times along with all delays
- Programming options for different alarm modes
- Different access levels with password protection
- Visual diagnostics and remote-control operations via the visualization software „Visual detect"
- Commissioning and service tool for analyzing and fault finding functions with „I-check" software
- Inclusive English language kit for control and programming

Technical data

Supply voltage	230 V AC (-15%/+10%)		Dimensions (H x W x D)	490 mm x 420 mm x 210 mm
Power supply	24 V DC/72 W/3,5 A		System approval	S295054 and S210001
	24 V DC/800 mA		Weight	12,0 kg without batteries
Emergency supply	2 x 12 V/26 Ah		Standards	EN 54-2: 1997 A1:2006
Interfaces	RS-232			EN 54-4: 1997 A1:2002 A2:2006
	Bitbus RS-485		VdS approval	G 203068
	Fire brigade interface		CE-CPD number	0786-CPD-20817
Display	LC-display 160 x 80 points		Further approvals	EN 12094 - for 1 area
	Backlight			extinguishing systems
Ambient temperature	-5 °C a +40 °C			International approvals on request
Outputs	up to 4 loop 140 mA / 3500 m for		Generale remarks	
	up to 126 Loop3000 elements			Scope of delivery without
	each 3 relais outputs 250 V/5 A			loop cards, network interfaces
Open collector outputs	8 x 30 V DC/90 mA			and batteries
Inputs	3 inputs for collective signal			Utilization of integrated standard
				extinguishing interface requires
Protection class	IP 30			1 optional LED indicator module
Colour	Light grey (RAL 7035)			in the front to ensure the
Material	Sheet steel			indication according to EN 54-2

Primary 2 A synchronized mains adapter	2402STE
VdS approval G 209142	Art-Nr.: 32579

Universal primary synchronized mains adapter for the use as an emergency power supply unit for the detect 3000 range. Approved according to EN 54-4 A1 2002, A2 2006 and VdS for the use according to VdE 0833.

- Primary synchronized switching power supply with electronic overload functions
- Integrated low voltage discharge protection
- Controlled output voltage 27,6 V
- Flexible input voltage range 110 to 230 V
- LED - fault display and potential free fault outputs
- Intelligent battery-management

Technical data

Output current	2,0 A
Battery capacity	Max. 2 x 17 Ah
Protection class	IP 20
Colour	White
Material	Sheet steel
Dimensions (H x W x D)	420 mm x 400 mm x 80 mm
Weight	9 kg
CE-CPD number	0786-CPD-20787

Pimary 5 A synchronized mains adapter	2405STE
VdS approval G 209142	Art-Nr.: 32580

Universal primary synchronized mains adapter for the use as an emergency power supply unit for the detect 3000 range. Approved according to EN 54-4 A1 2002, A2 2006 and VdS for the use according to VdE 0833.

- Primary synchronized switching power supply with electronic overload functions
- Integrated low voltage discharge protection
- Controlled output voltage 27,6 V
- Flexible input voltage range 110 to 230 V
- LED - fault display and potential free fault outputs
- Intelligent battery-management

Technical data

Output current	5,0 A
Battery capacity	Up to 2 x 17 Ah in the housing
	Up to 2 x 38 Ah with separate housing
Protection class	IP 20
Colour	White
Material	Sheet steel
Dimensions (H x W x D)	420 mm x 400 mm x 80 mm
Weight	9 kg
CE-CPD number	0786-CPD-20787

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1 Loop - interface, active, 140 mA	DLI 3240PS X1 1L
VdS approval related to panel detect 3004 plus	Art-Nr.: 32737

Microprocessor controlled loop interface for the uninterruptible and short-circuit-proof use with the loop3000 fire detection system components. For the connection of 126 fire detection system components on one loop or 2 spurs.

- Connection of loop3000 components in loop structure or spur-structure
- Easy and flexible installation and initialization via automatic and manual addressing
- Integrated RS-232 interface for an easy analysis of the loop components, the preadjustment of functions and commissioning of loop3000
- 8 integrated freely programmable open-collector-alarm outputs
- 2 integrated open-collector-alarm outputs for the programming of collecting functions
- Supply via fire control panel detect 3004
- Integrated short circuit isolaters on all loop outputs
- Up to 42 T-branches per loop possible
- Commissioning and service tool for analyzing and fault finding functions with I-Check software

Technical data

Supply voltage	20 a 32 V DC via detect 3004 plus supply
Emergency supply	Via detect 3004 plus supply
Interfaces	1 x RS-232
Uscite	Alternative 2 stitches
Dimensions (H x W x D)	140 mm x 140 mm x 30 mm
Standards	EN 54-2 and EN 54-17
System approval	S 295054 e S 210001

2 Loop - Interface, active, 2 x 140 mA	DLI 3240PS X1
VdS approval related to panel detect 3004 plus	Art-Nr.: 32738

Microprocessor controlled loop interface for the uninterruptible and short-circuit-proof use with the loop3000 fire detection system components For the connection of 2 x 126 fire detection system components on two loops or 4 spurs

Properties and technical data like Art.No. 32737.

2 Loop - Interface, active, 2 x 140 mA, redundant	DLI 3240PS X1 - R
VdS approval related to panel detect 3004 plus	Art-Nr.: 32739

Microprocessor controlled loop interface for the uninterruptible and short-circuit-proof use with the loop3000 fire detection system components For the connection of 2 x 126 fire detection system components on two loops or 4 spurs.
With a second processor for increased reliability in the loop (redundancy)

Properties and technical data like Art.No. 32737

Conventional interface for 8 fire zones	CLI X1
VdS approval related to panel detect 3004 plus	Art-Nr.: 30210

Microprocessor controlled conventional interface for the uninterruptible and short-circuit-proof use with conventional detectors of the series CT 3000

- Connection of up to 25 automatic conventional detectors of the series CT 3000 (10 manual call points) per detector zone
- 8 integrated freely programmable open-collector-alarm outputs
- 2 integrated open-collector-alarm outputs for the programming of collecting functions
- Supply via fire control panel detect 3004

Technical data

Supply voltage	20 a 32 V DC via detect 3004 plus supply
Emergency supply	Via detect 3004 plus supply
Dimensions (H x W x D)	140 mm x 140 mm x 30 mm
Standards	EN 54-2, EN 54-17
System approval	S 295054 and S 210001

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LED indicator module for 8 zones	ZM 8
VdS approval related to panel detect 3004 plus	Art-Nr.: 30088

LED indicator module for the status indication of 8 detector zones
with yellow LEDs for fault and red LEDs for alarm for the mounting into the
front door of the fire control panel detect 3004.

- Suitable for all fire control panels of the series detect 3004
- 8 red LEDs for the indication of alarms of each detector zone
- 8 yellow LEDs for the indication of faults of each detector zone
- Direct connection to the CPU via a 10 pole ribbon cable (included in delivery)
- Possibilty for the labelling of each detector zone in the front of the panel, by the integration in the front plate MP 3004 (optional)

General remarks: Up to 6 LED indicator modules can be connected in the front of the panel 2 modules can be connected directly to the CPU. For the modules 3-6 an adapter board will be necessary (Art.-No. 30386)

Technical data

Supply voltage	20 a 32 V DC via detect 3004 supply
Emergency supply	Via detect 3004 plus
Dimensions (H x W x D)	80 mm x 43 mm x 12 mm
Standards	EN 54-2, EN 54-17
System approval	S 295054 and S 210001

Extinguishing Display board for detect 3004 plus	EXT 3004 plus
	Art-Nr.: 32559

Extension Module for LED indicator 3-6 plus	ADB 48
	Art-Nr.: 30386

Mounting Plate	MP 3004
	Art-Nr.: 31946

Single display and printer for detect 3004

Mounting Plate	CPMP 3004 plus
	Art-Nr.: 32560

For display extinguishing interface and printer for 3004 plus

Assembly frame 19" -12 HE for detect 3004 plus	RMK 19
	Art-Nr.: 30161

Extinguishing control card,	ETB X1
	Art-Nr.: 30111

1 extinguishing area for detect 3004 and detect 3004 plus

Redundance-Calculator	CPU X1-R
	Art-Nr.: 30113

Additional casing, deep for detect 3004 plus	UZG 1
	Art-Nr.: 31318

Mount in printer for detect 3004 plus	PIP 3004 plus
	Art-Nr.: 32558

- Mounting Plate (Art.-Nr. 32560) is required

Thermo-paper for PIP 2 and PIP 3004 plus	EP 5
VdS approval G 203068	Art-Nr.: 30107

- Packing unit 5 rolls

Relay board, 8 change over contacts — RB 8

VdS approval G 203068 — Art-Nr.: 30077

Control board for the connection of up to 8 additional external change over contacts for the fire control panels detect 3004.

- Possibility for 8 additional change over contacts for the control of external circuits of up to 250 V/5A
- 8 low-active inputs for the parallel switch of the outputs of the control board
- 1 input for the release or the switch off of the functions of the control board
- Power supply 24 V via power supply unit of the fire control panel
- Module-housing for the easy mounting onto a DIN raile
- 8 LEDs to indicate the status of the outputs

Technical data

Input voltage	21 a 28 V DC
Material	ABS
Dimensions (H x W x D)	125 mm x 110 mm x 60 mm

Alarm control module, 32 OC-outputs — AM

VdS approval G 203036 — Art-Nr.: 30115

Microprocessor controlled extension module for 32 additional programmable alarm outputs (OC-outputs) for the extension of the output matrix of the fire control panels detect 3004.

- Extension for 32 programmable alarm output areas
- Activation via internal I²C-bus or via RS-232-Interface of the fire control panel
- Remote mounting by connectors (via RS-232)
- Power supply 24 V via power supply unit of the fire control panel
- Easy mounting via 32 pole pin contact bar in the connection board of the detect 3016, via ribbon cable of the detect 3004 or the adapter plate

Technical data

Input voltage	21 up to 28 V DC
Outputs	32 open collector
Dimensions (H x W x D)	140 mm x 140 mm x 25 mm

Connection board for alarm module AM 30115 — AM AP

VdS approval G 203068 — Art-Nr.: 30116

Adapter module for the external use or remote mounting of the alarm module AM outside of the fire control panels detect 3004.

- Module housing for easy mounting on DIN-rail
- Terminal block for easy external circuits
- Remote mounting by connectors possible

Technical data

Material	ABS
Dimensions (H x W x D)	88 mm x 175 mm x 70 mm

Output card sounder, 4 outputs, monitored — SC 4

Art-Nr.: 32066

Output card for a monitored connection of up to 4 additional shortcircuit-proof signal lines to the fire control panels of series detect 3004/3016.

- max. 580 mA line current each
- Outputs can be activated to be dependend on the buttom "ext. Warning on/off" of the fire control panel
- 4 inputs for the control of signal lines
- Adjustment possibility for individual or collective control of all signal lines via jumper
- 24 V supply via supply unit of the fire control panel
- Contenitore per montaggio su barra DIN
- 12 LEDs for indication of operation and status
- Cascading option of multiple modules of the same type

Technical data

Input voltage	21 up to 37 V DC
Material	ABS
Dimensions (H x W x D)	125 mmx 130 mm x 70 mm