

FPC-500 Conventional Fire Panel

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Advantage Line

The Conventional Fire Panel 500 Series ideally meets the needs and expectations of small shops, warehouses, office buildings, schools, and kindergartens. The series comprises three different panel types for up to eight zones and 256 detectors. The modern, attractive design and small size of these robust panels make them blend discreetly into the decor.

The fire panels of the 500 Series are exceptionally easy to install, custom-configure, and maintain with little or no training. The panels are also self-explanatory and intuitive, making it quick and easy to teach end users how to operate them.

Features

- ▶ LCD with backlight screen and status indication for all detector zones
- ▶ Self-explanatory icons for intuitive operation
- ▶ Two history functions with 1,000 entries each, one for events and the other for walk tests
- ▶ Fully certified according to EN 54, featuring outstanding quality and reliability from Bosch
- ▶ Autoscroll function for easy checking of the overall panel configuration

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Technical specifications

	FPC-500-2	FPC-500-4	FPC-500-8
Detector zones	2	4	8
Max. number of detectors in accordance with EN 54-2	64	128	256
Max. number of detectors per zone in accordance with EN 54-2	32		
Max. extension modules	0	1	2
Prog. inputs	1		2
AUX output	1		
NAC output	2		
Relays	2		
Alarm counter	999 alarms		
Event history	1000 events		
Test history	1000 test events		
Electrical			
	FPC-500-2	FPC-500-4	FPC-500-8
Input voltage	230 VAC +10%/-15%, 50-60 Hz		
Max. current consumption AC	275 mA	312 mA	375 mA
Power consumption	80 W		
Operating voltage	21.4 VDC to 29 VDC		
I_{\min}	70 mA		
$I_{\max, a}$	0.7 A		
$I_{\max, b}$	2.3 A		
Zones	<ul style="list-style-type: none"> voltage: 20 VDC \pm1VDC current: max. 100 mA \pm5 mA max. cable resistance: 22.5 Ω 		
AUX	<ul style="list-style-type: none"> voltage: 21 VDC to 29 VDC current: 500 mA \pm10% max. cable resistance: 22.5 Ω fuse: 0.75 A @ 60 V 		
NAC	<ul style="list-style-type: none"> voltage: 21 VDC to 29 VDC current: 500 mA \pm10% each fuse: 0.75 A @ 60 V max. cable resistance: 22.5 Ω 		
Relay outputs	<ul style="list-style-type: none"> contact rating: 1 A @ 30 VDC max. cable resistance: 22.5 Ω 		
OC outputs	No inductive load.		
	<ul style="list-style-type: none"> contact rating: 20 mA @ 24 VDC max. cable resistance: 22.5 Ω 		
recommended cable type	Unshielded cable, 0.8 mm cable diameter to 1.5 mm ² cable cross section		
Batteries	2 x 7.2 Ah (max.)		
	<ul style="list-style-type: none"> max. internal resistance: 800 mΩ current consumption: 2.3 A 		

	<ul style="list-style-type: none"> fuse: 5 A @ 60 V 		
Discharge voltage threshold	21.4 V		
Communication parameters			
NAC			
Normal	<ul style="list-style-type: none"> A-: 10 – 15 V B+: 0 – 0,5 V 		
Alarm	<ul style="list-style-type: none"> A-: 0 – 1 V B+: 21 – 29 V 		
Inputs			
	<ul style="list-style-type: none"> Alarm resistor: 820 Ω \pm5% End of line resistor: 3.9 kΩ \pm1% 		
Zone (with resistors)			
	<ul style="list-style-type: none"> Alarm resistor: 820 Ω \pm5% 910 Ω \pm5% No dual-detector dependency: 680 Ω \pm5% End of line resistor: 3.9 kΩ \pm1% 		
Zone (with EOL-Module)			
	<ul style="list-style-type: none"> Alarm resistor: 820 Ω \pm5% 910 Ω \pm5% No dual-detector dependency: 680 Ω \pm5% 		
Mechanics			
	FPC-500-2	FPC-500-4	FPC-500-8
Dimensions (H x W x D)	351 x 351 x 90 mm		
Weight	2200 g, without batteries		
Housing material	<ul style="list-style-type: none"> Front: ABS+PC Back: ABS-FR 		
Housing color	<ul style="list-style-type: none"> Front: RAL 9003 (signal white) Back: PANTONE 10 C (cool grey) 		
Environmental conditions			
	FPC-500-2	FPC-500-4	FPC-500-8
Protection class as per IEC 60529	IP 30		
Protection class as per EN 60950	II		
EMC emission	EN 61000-6-3		
EMC immunity	EN 50130-4		
Vibrations	EN 60068-2-6		
Permissible operating temperature	0°C to +40°C		
Permissible storage temperature	-10°C to +55°C		
Permitted relative humidity	95% non-condensing		
Certifications and approvals			
Region	Certification		
Germany	VdS	VdS-G211100 FPC-500	
Europe	CE	FPC-500	
	CPD	0786-CPD-21105 FPC-500	
Parts included			
Qty.	Components		
1	Fire panel FPC-500-2/FPC-500-4/FPC-500-8		
1	Labeling strips for zones		

1	Labeling strips for LEDs
1	Quick Installation Guide
1	Quick Operation Guide
1	CD with Installation and User Guide, battery calculator and software flashing tool
1	EOL resistors for zones and inputs
1	Battery cable set
1	Cable ties for strain relief on power supply feeder
2	Rubber pads to fix batteries

Ordering information

FPC-500-2 Conventional Fire Panel	FPC-500-2
FPC-500-4 Conventional Fire Panel	FPC-500-4
FPC-500-8 Conventional Fire Panel	FPC-500-8
FLM-320-EOL2W Conventional EOL Module 2-Wire	FLM-320-EOL2W
FLM-320-EOL4W-S Conventional EOL Module 4-Wire	FLM-320-EOL4W-S
Accessories	
Relay Extension Module	FPC-500-RLYEXT
OC Extension Module	FPC-500-OCEXT
Access Key	FPC-500-KEY

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