

PolyGard®2



# Fire Detection Module EP06\_ES\_FDM

**Fire Detection Module with eight digital inputs, six relays for managing operating panels.**

The ES\_FDM communicates with the ES\_MCM-Module via the motor bus.

## APPLICATION

The management module is used for controlling panels like fire alarm systems of eight independent zones.



## FEATURES

- Operation in the -ES system network
- Control and monitoring of operating devices
- Safety-related control
- Input for fire detection system for fan / motor management
- Input for smoke extraction ON / OFF (requirement fire brigade tableau)
- Mains failure monitoring
- 24 V DC operating voltage
- Serial RS485 interface with protocol for ES system
- Connection socket for service tool
- Six relay outputs max. 250 V / 3A (NO) common potential
- One relay output max. 250 V / 3 A (changeover contact) potential-free (fault message)
- Software and hardware according to SIL 2-compliant development process
- Internal function monitoring with integrated hardware watchdog
- Comfortable test mode via service tool
- Conformity to:
  - Low Voltage Directive 2014/35/EU
  - EMC directives 2014/30/EU
  - EN 50271 / IEC 615078
  - EN 61010-1
  - Ansi / UL 61010 1
  - CAN / CSA-C22.2 No 61010-1



PolyGard®2



# Fire Detection Module EP06\_ES\_FDM

## SPECIFICATIONS

### Electrical

Power supply	24 V DC ± 20 %
Power consumption	5 W, 200 mA
Digital input (18)	I min 2 mA; (U min ON 11 V)
Relay output (6)	250 V AC, 5 A, common potential, NO (SPST NO)
Relay output (1)	250 V AC, 5 A, potential-free, change-over contact (SPDT)

### Interface motor bus

Transceiver	RS 485 / 19200 Baud, max. length per segment 800 m
-------------	--

### Ambient conditions

Humidity	15 – 95 % RH non-condensing
Working temperature	-10 °C to +40 °C (14 °F to 104 °F)
Storage temperature	0 °C to +40 °C (32 °F to 104 °F)

### Physical

Enclosure	Plastic housing ABS
Colour	RAL 7035
Protection class	IP 40
Weight	0.2 kg (0.5 lb.)
Packaging volume	Ca. 4.4 l
Mounting	Top hat DIN rail mounting, installation in distribution box
Dimensions	(W x H x D) 106 x 110 x 62 mm (4.2 x 4.3 x 2.4 in.)
Wire connection: Power supply & motor bus	Screw type terminal: 2.5 mm <sup>2</sup>
Input / output	Spring type: min. 0.5 mm <sup>2</sup> , max. 2.0 mm <sup>2</sup>

### Guidelines

EMC Directive 2014/30/EU  
 Low voltage directive 2014/35/EU  
 EN 50271 / IEC 615078 (pending)  
 EN 61010-1:2010 (pending)  
 ANSI/UL 61010-1 (pending)  
 CAN/CSA-C22.2 No. 61010-1 (pending)

### Warranty

2 years on device



PolyGard®2



# Fire Detection Module EP06\_ES\_FDM

## ORDER INFORMATION

EP-06\_ES\_FDM- X000

### OPTIONS

1000 Housing for field installation

## WIRING CONFIGURATION

