### **MK Sentry**

# Arc Fault Detection Device combined with RCBO (AFDD)





### **Description**

MK SENTRY AFDDs provide protection against fires caused by electrical arcing resulting from faulty wiring or poor connections. The AFDD analyses current/voltage characteristics to identify arcing and automatically trip to isolate the circuit. AFDDs detect arcing faults which can be undetected by MCBs and RCDs.

### Types of arc fault

Series arc fault, in-line conductor caused by;

- Loose connections
- Damaged cables (broken, crushed, worn cables)
- Rodent damage

Parallel arc fault, between live conductors, L-N and L-E undetected by MCB/RCD resulting from;

- Damaged insulation
- · Pierced insulation (power tools, nails etc)
- Rodent damage
- Poor wiring / damaged appliance plugs

#### **Features**

- Meets BS EN and IET Wiring Regulation requirements
- · Single module
- DP switching
- MCB Curve B and C
- · RCD Type A
- · 6000A breaking capacity
- · Reduces the risk of fire
- · Positive status indication

### Standards and approvals

Product Standard: BS EN62606, BS EN61009-1

**Product Certification: UKCA/CE** 

Degree of Pollution: 2

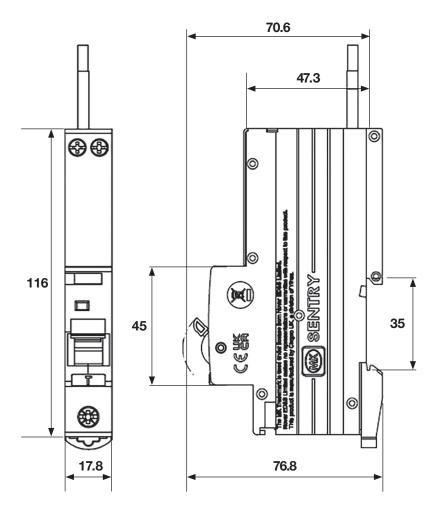
RANGE		
H4406s	AFDD/RCBO 6A DP MCB CURVE B, RCD 30MA TYPE A	
H4410s	AFDD/RCBO 10A DP MCB CURVE B, RCD 30MA TYPE A	
H4416s	AFDD/RCBO 16A DP MCB CURVE B, 3RCD 30MA TYPE A	
H4420s	AFDD/RCBO 20A DP MCB CURVE B, RCD 30MA TYPE A	
H4432s	AFDD/RCBO 32A DP MCB CURVE B, RCD 30MA TYPE A	
H4440s	AFDD/RCBO 40A DP MCB CURVE B, RCD 30MA TYPE A	
H4506s	AFDD/RCBO 6A DP MCB CURVE C, RCD 30MA TYPE A	
H4510s	AFDD/RCBO 10A DP MCB CURVE C, RCD 30MA TYPE A	
H4516s	AFDD/RCBO 16A DP MCB CURVE C, RCD 30MA TYPE A	
H4520s	AFDD/RCBO 20A DP MCB CURVE C, RCD 30MA TYPE A	
H4532s	AFDD/RCBO 32A DP MCB CURVE C, RCD 30MA TYPE A	
H4540s	AFDD/RCBO 40A DP MCB CURVE C, RCD 30MA TYPE A	

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### **Dimensions (mm)**

(Height) 116mm x (Width) 18mm x (Depth) 77mm weight 0.185Kg (0.2Kg packed)



### **TECHNICAL SPECIFICATION**

### **ELECTRICAL**

**CURRENT RATING** 

6/40A

**OPERATING VOLTAGE** 

**RATED SHORT CIRCUIT CAPACITY 6000A** 

MCB CURVE

B and C

**RCD OPERATION** 

Type A - 30mA tripping current

**SURGE CURRENT RESISTANCE** 

3000A @8/20s µs

**ENERGY LIMITING CLASS** 

#### **PHYSICAL**

**AMBIENT OPERATING TEMPERATURE** 

-5°C to +40°C

**NUMBER OF POLES** 

1P + N

**IP RATING** 

Front face IP4X, screw IP2X

**TERMINAL CAPACITY** 

Line / Neutral (Load) 16mm2 (torque 1.2Nm) Line

(Supply) 10mm2 (torque 2.5Nm)

MAX. INSTALLATION ALTITUDE

2000 metres

LED INDICATION				
The following table describes all possible LED states:				
Green LED is on	Device operable	•••••		
1X red flash	Serial or parallel arc detected ●○●○●	•0•0•0•0	After LED flash 5 times, then	
2X yellow flash	Overvoltage (>285V)	••••••••	product will do self test: self test passed, green LED will flash; failed,	
3X yellow flash	ow flash Residual current detected	•••••••	red LED will stay on, need contact	
Red LED is on	Self test failed	•0•0•0•0•0•0•0•0•0	service.	

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No flash

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No supply voltage