



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

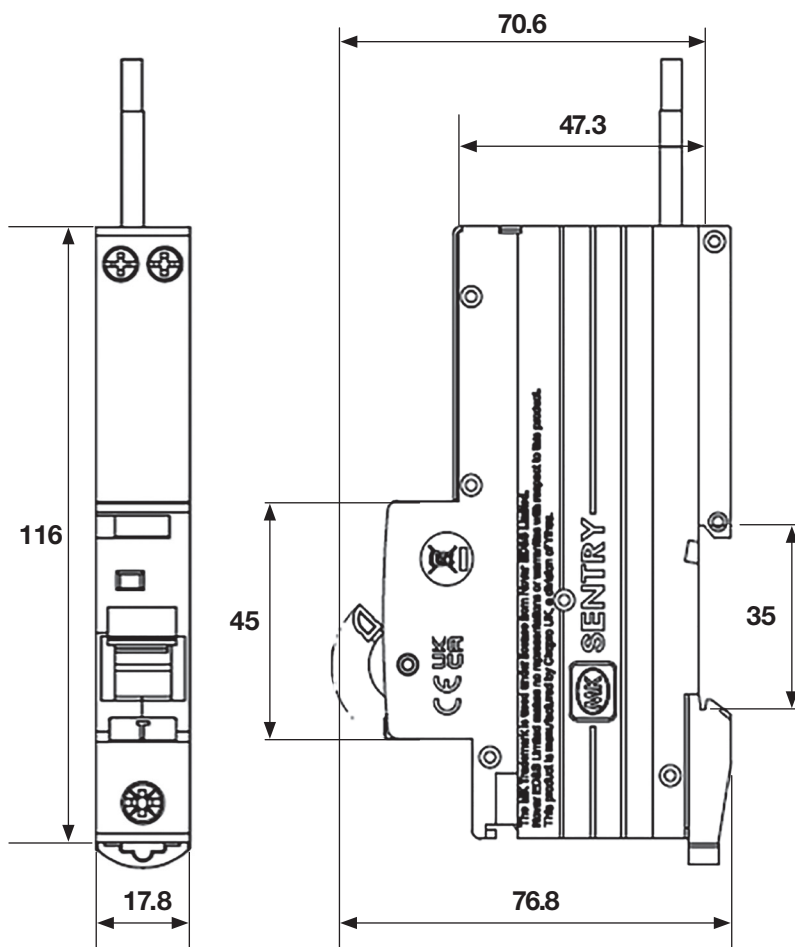
Standards and approvals

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



ELECTRICAL

6/40A

285V ac

B and C

Type A - 30mA tripping current

3000A @8/20s μ s

3

PHYSICAL

-5°C to +40°C

1P + N

Front face IP4X, screw IP2X

**Line / Neutral (Load) 16mm² (torque 1.2Nm) Line
(Supply) 10mm² (torque 2.5Nm)**

2000 metres

The following table describes all possible LED states:

Green LED is on	Device operable		After LED flash 5 times, then product will do self test: self test passed, green LED will flash; failed, red LED will stay on, need contact service.
1X red flash	Serial or parallel arc detected		
2X yellow flash	Overvoltage (>285V)		
3X yellow flash	Residual current detected		
Red LED is on	Self test failed		
No flash	No supply voltage		