HEAT DETECTION / CONVENTIONAL SYSTEMS

4-Wire Heat Detector

HYU-FA-HDR001-4



57°C
FIXED-TEMP ALARM

12/24 V
DC POWER

4-WIRE
NC / NO RELAY

Product Overview

Conventional heat detector with fixed-temperature and rate-of-rise response.
Designed for supervised fire alarm zone circuits and compatible control panels.

Key Specifications

Type	Conventional heat detector, 4-wire
Power supply	12 / 24 V DC
Fixed-temperature response	57°C (135°F)
Rate-of-rise response	8°C/min (UL 521); Class 2 (EN 54-5)
Alarm output	Form A; NO / NC operation
Standby current	45 µA max.
Alarm current	30 mA max.
Indicator	Continuous red LED in alarm

Reference data: supplied product specification. Values refer to the detector series.

HYU-FA-HDR001-4 / DETAILED TECHNICAL DATA

Electrical, Detection and Environmental Data

Wiring type	4-wire
Operating voltage	12 / 24 V DC
Standby current (max.)	45 µA
Alarm current (max.)	30 mA
Surge current (max.)	100 µA
Startup time (max.)	30 seconds
Frequency (datasheet)	1-3 seconds
Alarm contact	Form A; NO or NC operation 1.0 A @ 30 V DC / 0.5 A @ 125 V AC
Temperature response	Fixed: 57°C (135°F) Rate-of-rise: Class 2 (EN 54-5) / 8°C/min (UL 521)
Ceiling spacing rating	50 ft (heat sensor rating)
Reset voltage	Less than 1 V
Alarm indicator	Continuous red LED
Remote indicator output	25 mA max., diode-gated
Permissible current	80 mA max.
Operating temperature	-10°C to +50°C
Operating humidity	0-95% RH, no condensation or icing
Dimensions with base	Ø 100 × 46 mm
Weight with base	120 g / set

Dimensions & Installation

Ø 100 mm

Diameter with mounting base

46 mm

Overall height with base

Installation and compatibility

- Use a compatible base and verify panel compatibility before installation.
- Apply applicable local fire alarm installation standards and codes.

Standards referenced by the supplied series datasheet: UL 521 and EN 54-5.
Confirm the supplied model’s certification and installation requirements separately.