HEAT DETECTOR DEVICES

SHEET 1

PRODUCTS:
D1xH1 ; STExH1

Diagram	Sheet
Standard Switch Wiring Configurations	1
LED Indicator Wiring Configurations	2

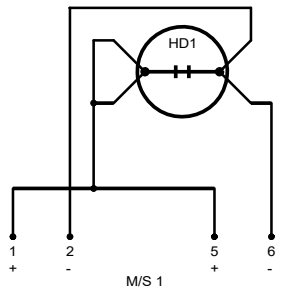
+ DIODE
+ ZENER DIODE

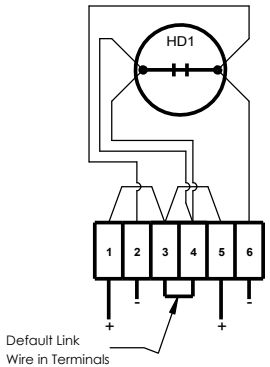
Module Device Codes	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION RNP 10-05-2024

HEAT DETECTOR — CONFIG. A1-1

PRODUCT VERSION [v] [A] Ex d
PRODUCT OPTION [o] [1] Default
LED INDICATOR [u] [N] NO LED



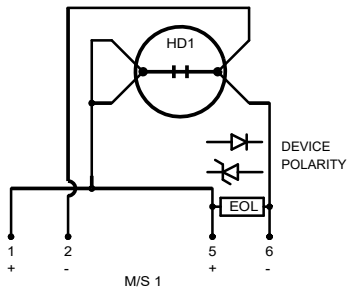


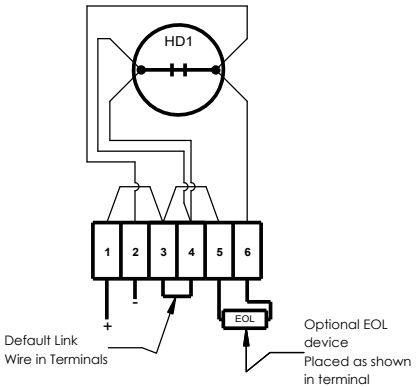
Circuit shown in Unoperated condition

Unoperated condition
(Heat Detector in Standby Condition)
Terminals (+1,-2) & (+5,-6) open
Operated condition
(Heat Detector in operated condition)
Terminals (+1,-2) & (+5,-6) closed

HEAT DETECTOR WITH EOL DEVICE — CONFIG. A1-2

PRODUCT VERSION [v] [A] Ex d
PRODUCT OPTION [o] [1] Default
LED INDICATOR [u] [N] NO LED
SERIES MODULE [e] [Exxxx] EOL



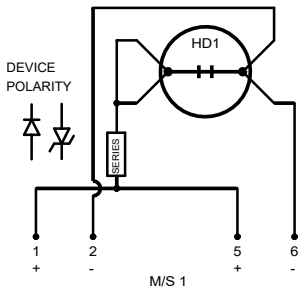


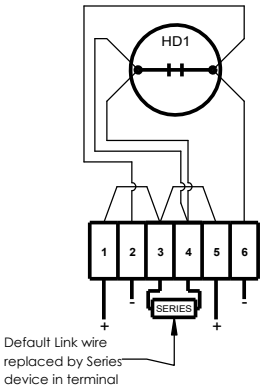
Circuit shown in Unoperated condition

Unoperated condition
(Heat Detector in Standby Condition)
Terminals (+1,-2) & (+5,-6) open
Operated condition
(Heat Detector in operated condition)
Terminals (+1,-2) & (+5,-6) closed

HEAT DETECTOR WITH SERIES DEVICES — CONFIG. A1-3

PRODUCT VERSION [v] [A] Ex d
PRODUCT OPTION [o] [1] Default
LED INDICATOR [u] [N] NO LED
SERIES MODULE [s] [Sxxxx] Series



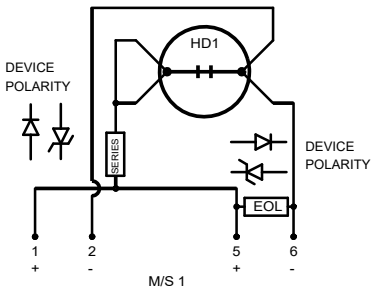


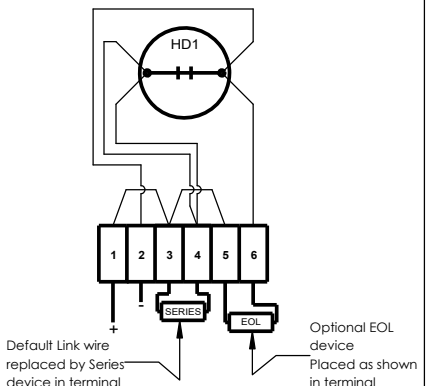
Circuit shown in Unoperated condition

Unoperated condition
(Heat Detector in Standby Condition)
Terminals (+1,-2) & (+5,-6) open
Operated condition
(Heat Detector in operated condition)
Terminals (+1,-2) & (+5,-6) closed

HEAT DETECTOR WITH EOL & SERIES DEVICES — CONFIG. A1-4

PRODUCT VERSION [v] [A] Ex d
PRODUCT OPTION [o] [1] Default
LED INDICATOR [u] [N] NO LED
MODULES [e][s] [Exxxx] EOL +
[Sxxxx] Series



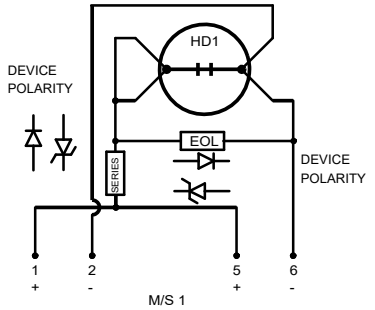


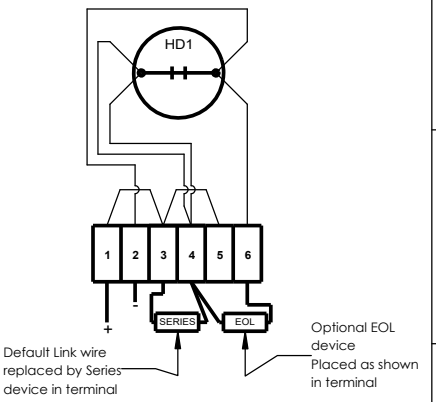
Circuit shown in Unoperated condition

Unoperated condition
(Heat Detector in Standby Condition)
Terminals (+1,-2) & (+5,-6) open
Operated condition
(Heat Detector in operated condition)
Terminals (+1,-2) & (+5,-6) closed

HEAT DETECTOR WITH EOL & ALT. SERIES DEVICES — CONFIG. A1-5

PRODUCT VERSION [v] [A] Ex d
PRODUCT OPTION [o] [W] Alt. EOL Pos'n.
LED INDICATOR [u] [N] NO LED
MODULE [e][s] [Exxxx] EOL +
[Sxxxx] Series





Circuit shown in Unoperated condition

Unoperated condition
(Heat Detector in Standby Condition)
Terminals (+1,-2) & (+5,-6) open
Operated condition
(Heat Detector in operated condition)
Terminals (+1,-2) & (+5,-6) closed

DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
D1xH1-A ; D1xH1-H
STExH1-A : STExH1-H

DRAWN R.N.POTTS DATE 10-05-2024
CHECKED B.ISARD DATE 10-05-2024
APPROVED R.N.POTTS DATE 10-05-2024

SURFACE FINISH
WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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ALL DIMENSIONS IN MM
IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE
D1xH1-A & -H ; STExH1-A & -H Ex d HEAT DETECTOR WIRING / CIRCUIT OPERATION DIAGRAM

SCALE NTS
SHEET 1 OF 2
DRAWING NUMBER **D255-06-001**

HEAT DETECTOR WITH LED DEVICES

SHEET 2

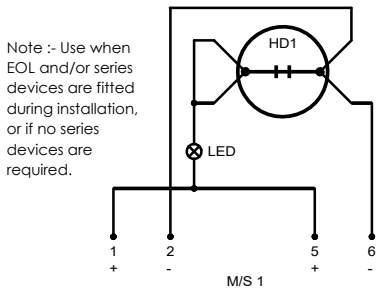
Notes:
1. LED option 'L': LED contains the 1.5K Ohm series current-limiting resistor RL1.
   LED option 'C': LED does not contain a current-limiting resistor. System current must be <20mA.
   All schematic diagrams below show option 'L' LED - remove RL1 for 'C' LED option.

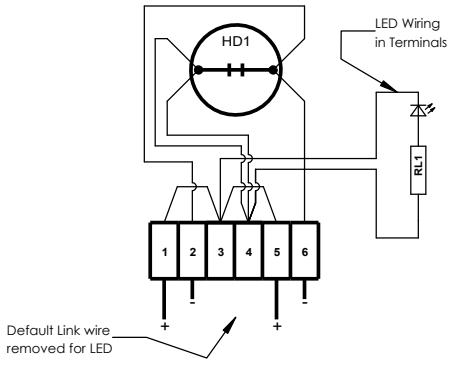
Module Device Codes	EOL	Series
Resistor	ExxxR	SxxxR
Diode	ED1	SD1
Zener Diode	ExxxZ	SxxxZ
LED	N/A	L or C

ISSUE	MOD No.	REASON - INITIAL - DATE
1		INTRODUCTION RNP 10-05-2024

HEAT DETECTOR WITH LED ONLY — CONFIG. A2-1

PRODUCT VERSION [v]	[A]	Ex d
PRODUCT OPTION [o]	[1]	Default
LED INDICATOR [u]	[L]	LED with RL1





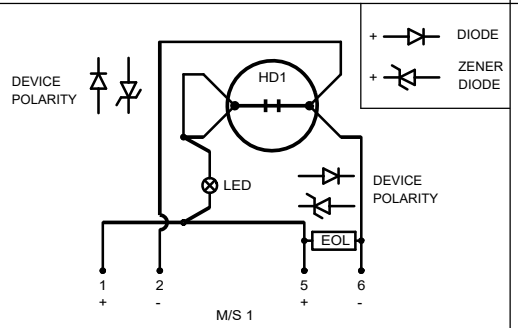
Circuit shown in Unoperated condition

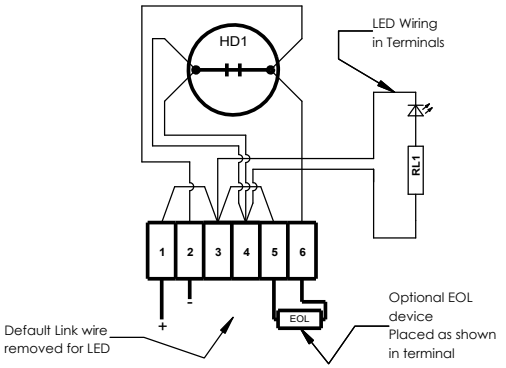
Unoperated condition
(Heat Detector in Standby Condition)
Terminals +(1,2) & -(5,6) open

Operated condition
(Heat Detector in operated condition)
Terminals +(1,2) & -(5,6) closed

HEAT DETECTOR WITH LED & EOL DEVICE — CONFIG. A2-2

PRODUCT VERSION [v]	[A]	Ex d
PRODUCT OPTION [o]	[1]	Default
LED INDICATOR [u]	[L]	LED with RL1
MODULE [E]	[Exxxx]	EOL Device





Circuit shown in Unoperated condition

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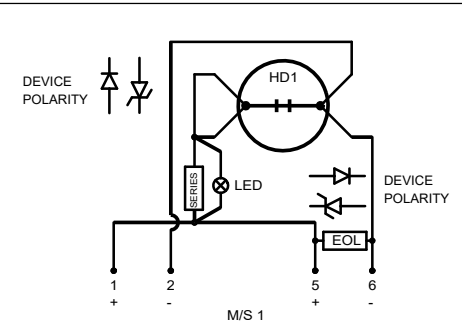
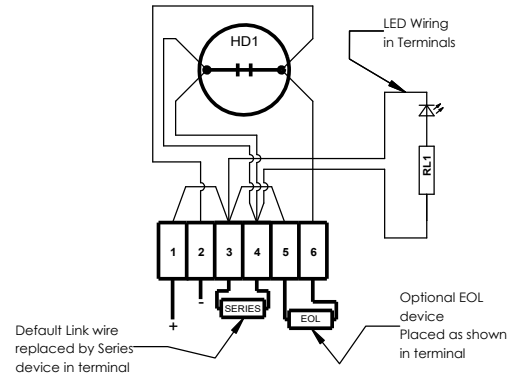
(Heat Detector in Standby Condition)
Terminals +(1,2) & -(5,6) open

Operated condition
(Heat Detector in operated condition)
Terminals +(1,2) & -(5,6) closed

HEAT DETECTOR WITH LED EOL & SERIES DEVICES — CONFIG. A2-3

PRODUCT VERSION [v]	[A]	Ex d
PRODUCT OPTION [o]	[1]	Default
LED INDICATOR [u]	[L]	LED with RL1
MODULES [e][s]	[Exxxx][Sxxxx]	EOL + Series





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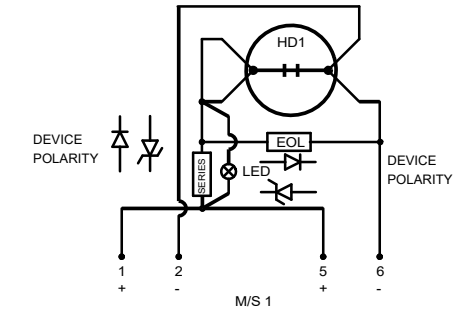
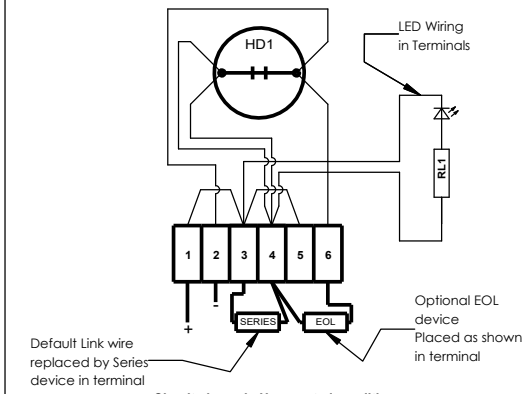
Operated condition
(Heat Detector in operated condition)
Terminals +(1,2) & -(5,6) closed

HEAT DETECTOR WITH LED, EOL & ALT. SERIES DEVICE — CONFIG. A2-4

PRODUCT VERSION [v]	[A]	Ex d
PRODUCT OPTION [o]	[W]	Alt. EOL Pos'n.
LED INDICATOR [u]	[L]	LED with RL1
MODULE [e][s]	[Exxxx][Sxxxx]	EOL + Series





Circuit shown in Unoperated condition

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(Heat Detector in Standby Condition)
Terminals +(1,2) & -(5,6) open

Operated condition
(Heat Detector in operated condition)
Terminals +(1,2) & -(5,6) closed

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GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
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STANDARDS
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STExH1-A : STExH1-H

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SURFACE FINISH | WEIGHT (Kg)
MATERIAL
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IF IN DOUBT, ASK - DO NOT SCALE

A3

TITLE
D1xH1-A & -H ; STExH1-A & -H Ex d HEAT DETECTOR WIRING / CIRCUIT OPERATION DIAGRAM

SCALE	SHEET	DRAWING NUMBER
NTS	2 OF 2	D255-06-001