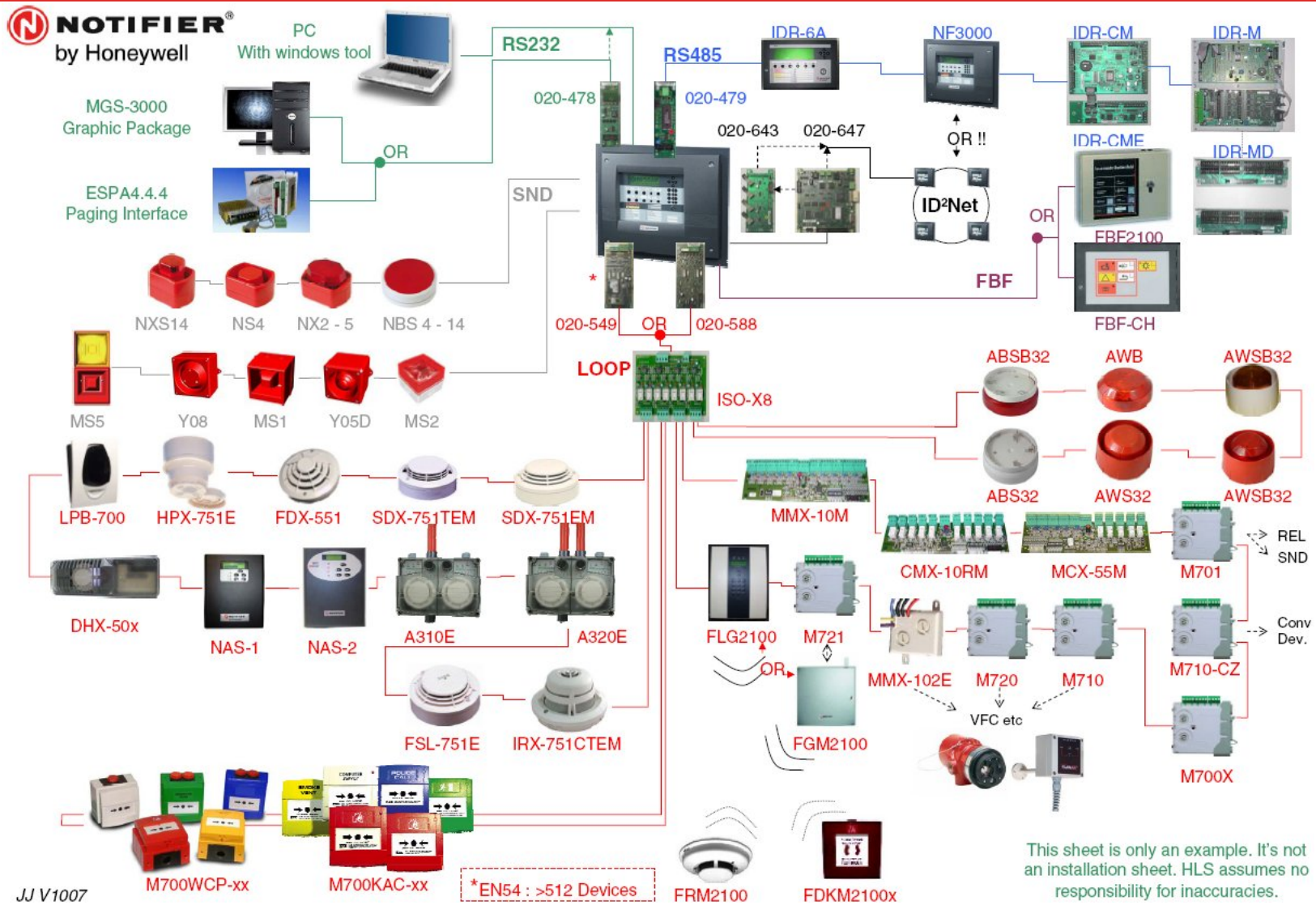


Intelligent Loop

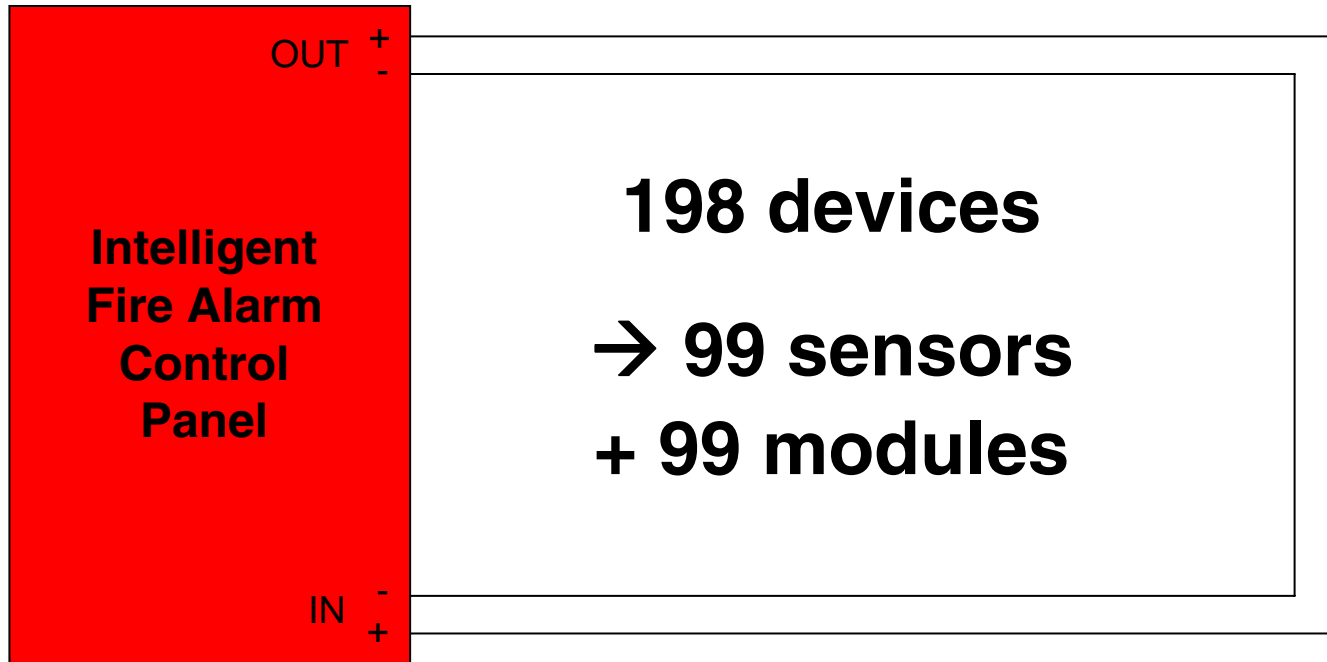
Notifier / HLS Team
V1007

Honeywell

Overview NF3000



This sheet is only an example. It's not an installation sheet. HLS assumes no responsibility for inaccuracies.

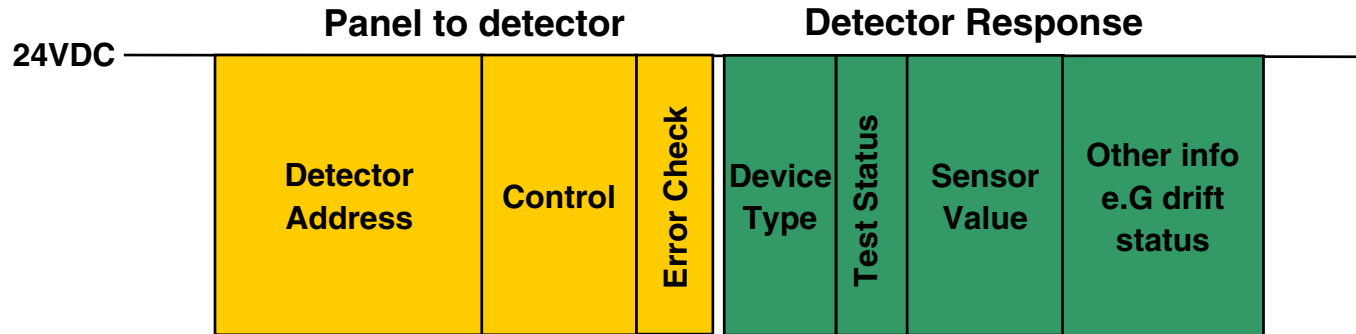


System must be wired in 2 core cables and each 2 core cable must be specific to one function.

Cable must be screened.

The screen must be continuous throughout the loop.

Communication protocol



Device address

Control of device LED

Control of device self-test

Control of module output

Error detection

Device type (opt, heat, etc...)

Analogue signal (current sensor value)

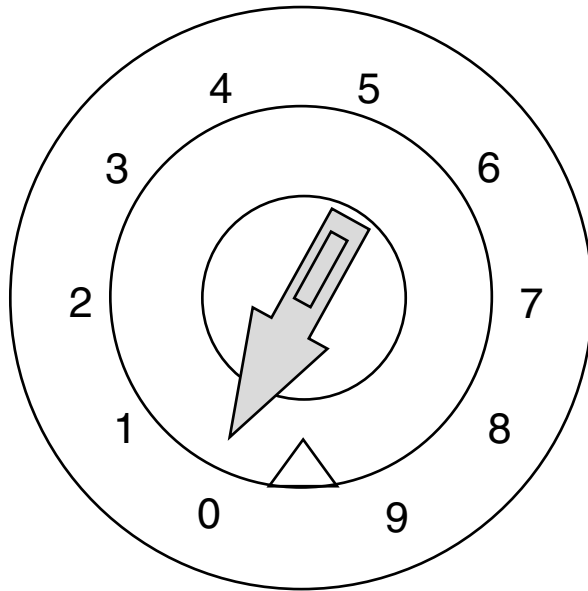
Alarm signal

Status of module output

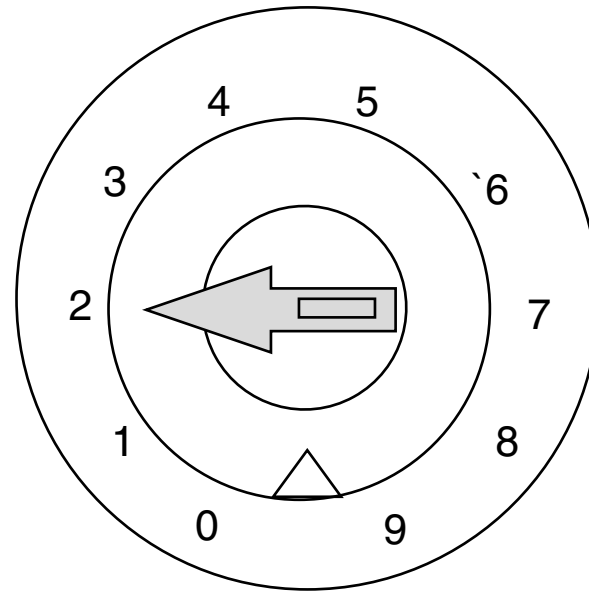
Remote test status

Manufacturer code

Addressing methods



TENS



UNITS

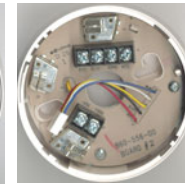
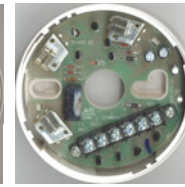
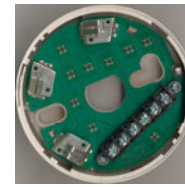
Device's address between 01 and 99

Differences in the protocol between detectors and modules allow them to have the same address without interfering with each other

Address 00 (the factory default setting) is not used

Sensors

Honeywell



<u>Old Ref.</u>	<u>New Ref.</u>	<u>Type</u>	<u>B501</u>	<u>B501 DG</u>	<u>B524-IEFT-1</u>	<u>B524HTR</u>	<u>B524RTE</u>	<u>B524FTXE</u>
SDX-551E	SDX-751EM	Optical	Y	Y	Y	Y	Y	N
//	SDX-751TEM (OPTIPLEX)	Opt / Therm	Y	Y	Y	Y	Y	N
FDX-551E	FDX-551EM	Therm 58°C	Y	Y	Y	Y	Y	N
//	FDX-551HTEM	Therm 78°C	Y	Y	Y	Y	Y	N
FDX-551RE	FDX-551REM	Therm 58°C or 10°C/min	Y	Y	Y	Y	Y	N
//	HPX-751E (FILTREX)	Opt	N	N	N	N	N	Y
LPB-620	LPB-700	Beam optical	//	//	//	//	//	//
LPX-751E	FSL-751E (VIEW)	Opt Laser	Y	Y	Y	Y	Y	N
//	IRX-751CTEM (SMART4)	Opt / Therm / CO / IR	Y	Y	Y	Y	Y	N

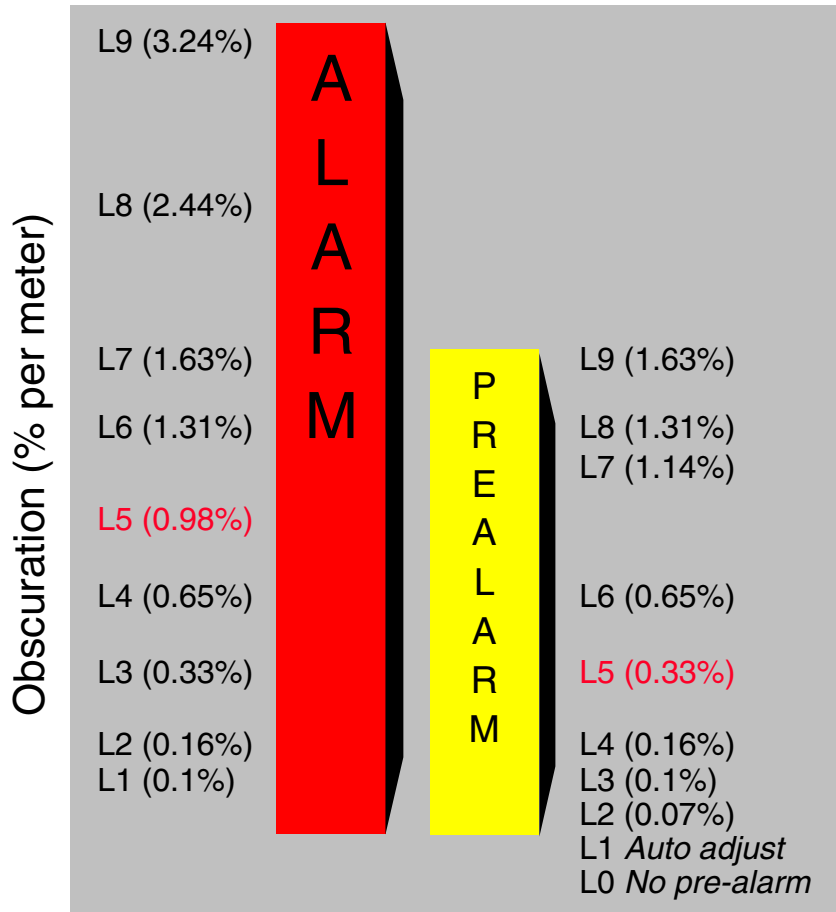
Y = Compatible N = Not compatible



NOTIFIER[®]
by Honeywell

To calculate the current consumption → Loop & Batteries calculator

VIEW



OPTIPLEX

- L6 : Thermal 58°C
- L5 : Low
- L4 : Medium to Low (Auto adjust)
- L3 : Medium**
- L2 : Medium to High (Auto adjust)
- L1 : High

OPT

- 150% : Max
- 100% : Alarm = **L5**
- 80 % : Pre-alarm = **L5**
- 21 % to 79% : Normal
- <= 20 % : Fault

SMART4

L6 : Thermal 60°C or rate of rise limits.

L5 : Very high false alarm resistance, low photoelectric only sensitivity (4%/ft of smoke)

Maximum of 10 min delay from processed photo output.

L4 : High false alarm resistance, low photoelectric only sensitivity (3%/ft of smoke)

Maximum of 10 min delay from processed photo output.

L3 : Standard false alarm resistance, low photoelectric only sensitivity (3%/ft of smoke)

No delays from processed photo output.

L2 : Medium false alarm resistance, medium photoelectric only sensitivity (2%/ft of smoke)

No delays from processed photo output.

L1 : Low false alarm resistance, high photoelectric only sensitivity (1%/ft of smoke or greater than 45 ppm of CO)

No delays from processed photo output

Note : the delay counter starts when the smoke level exceeds approximately 0.75%/ft

Harsh environments: L2 or L3 Pre-alarm & L5 or L6 Alarm

Moderate environments: L1, L2 or L3 Pre-alarm & L4 Alarm

Clean applications: L1 Pre-alarm & L2 or L3 Alarm

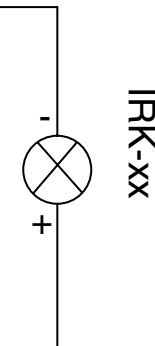
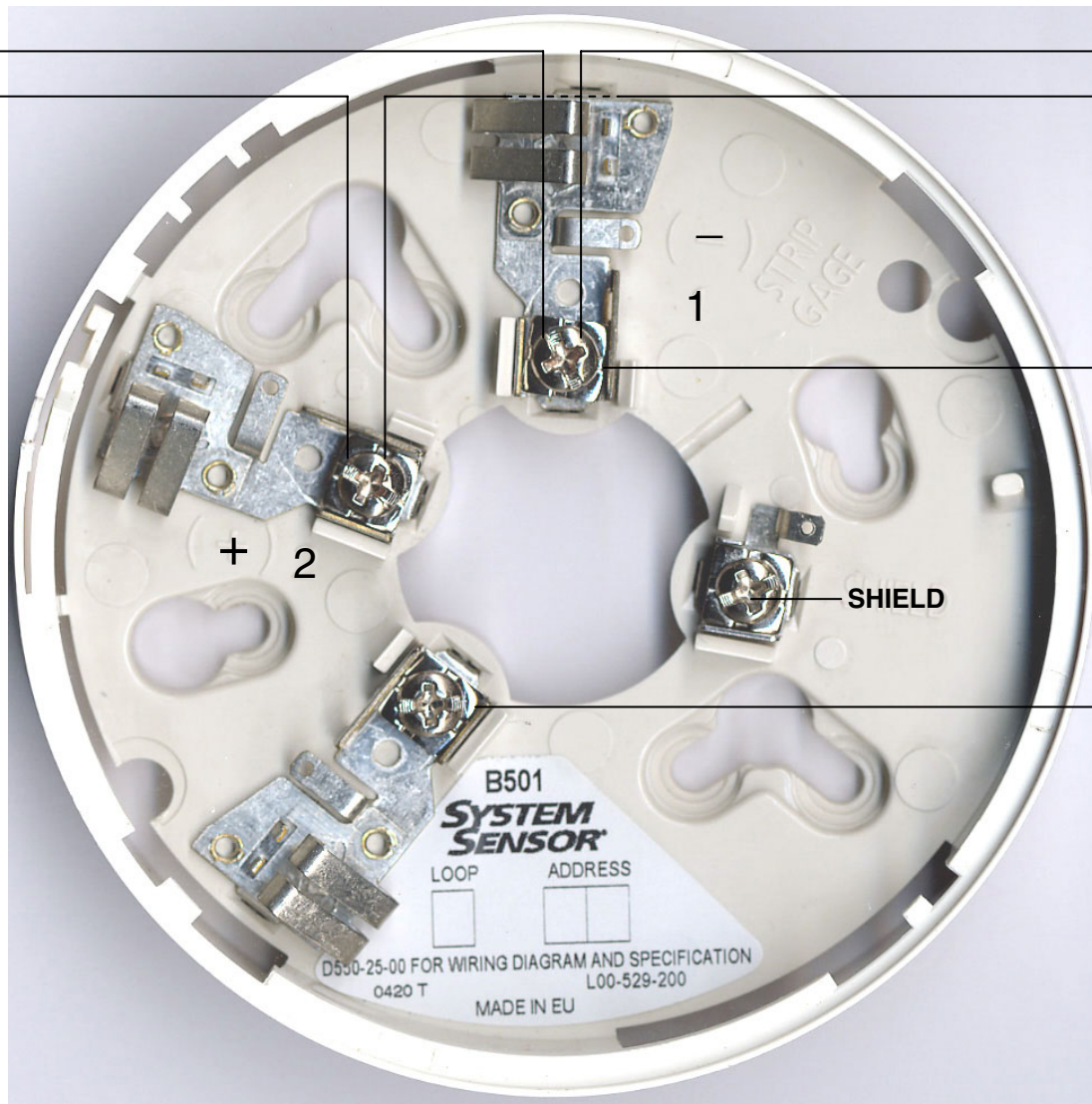
Ultra-clean applications: L1 Pre-alarm & L1 Alarm

B501 (B501 DG)

Honeywell

Loop
-
+

Loop
-
+



Diameter:

102mm

Height:

20mm (B501)

26mm (B501DG)

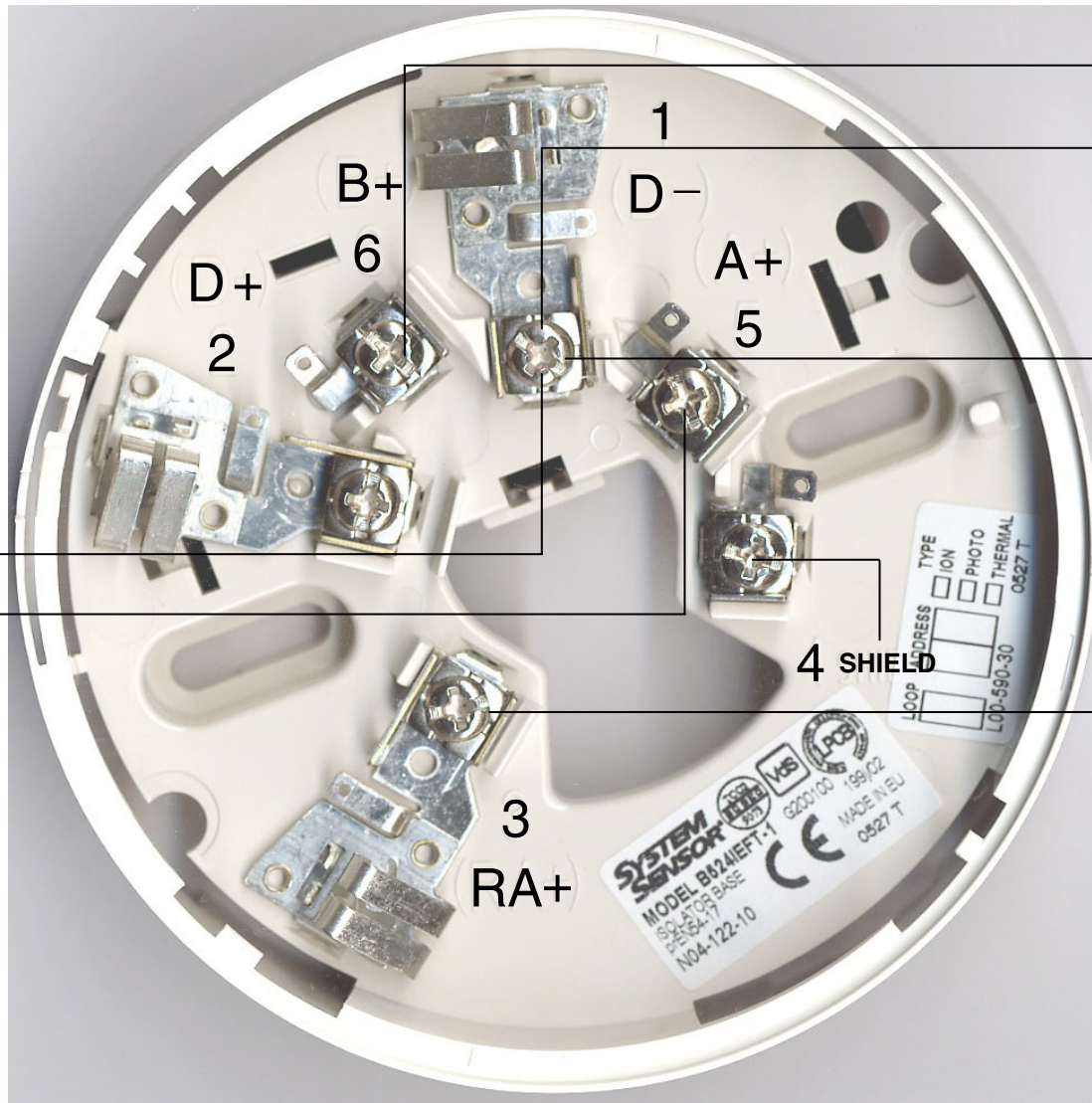
Weight:

53g (B501)

57g (B501DG)

B524IEFT-1

Honeywell



Diameter:

102mm

Height:

26mm

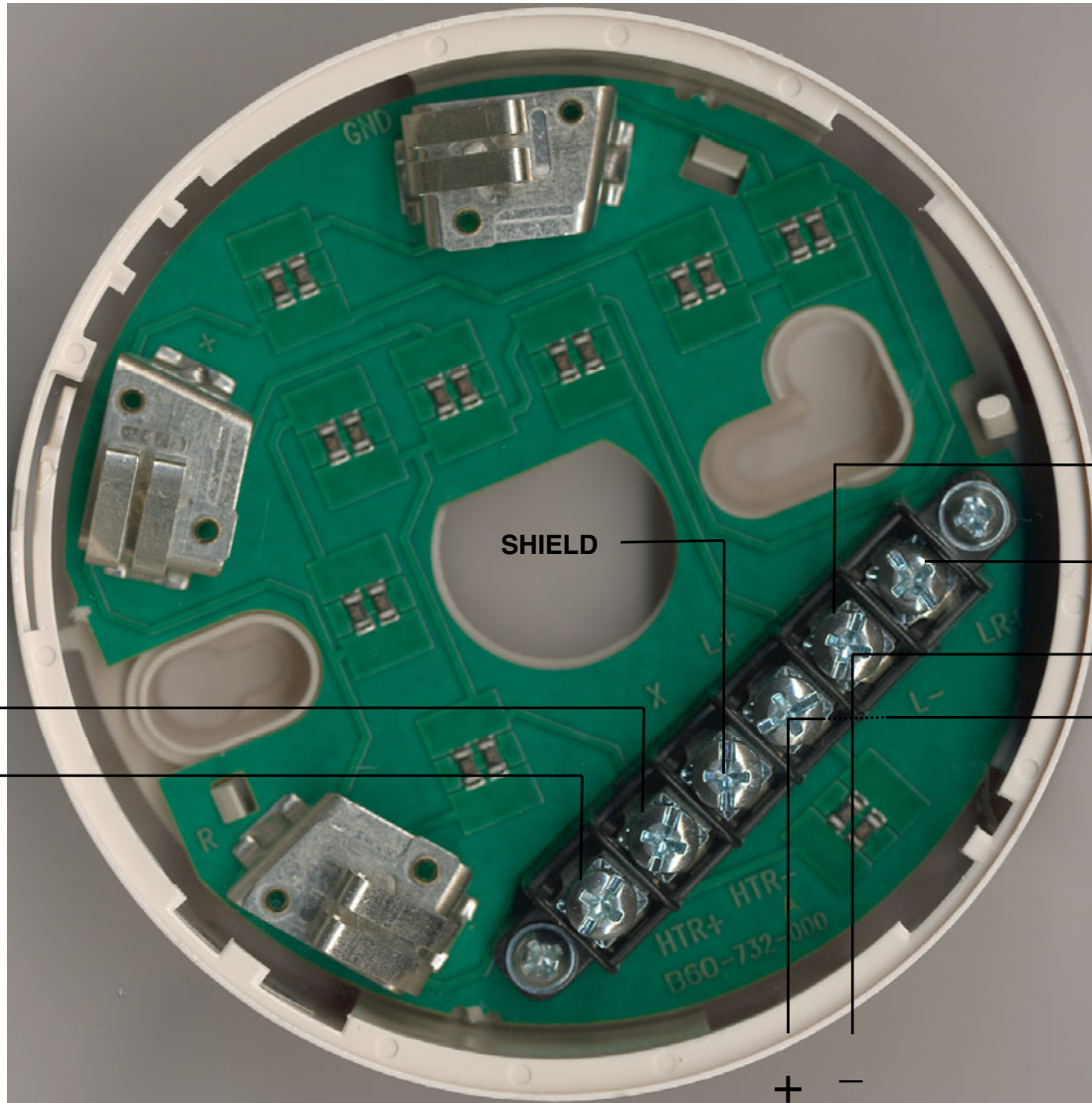
Weight:

70g

 **NOTIFIER**[®]
by Honeywell

B524HTR

Honeywell



Diameter:

102mm

Height:

36mm

Weight:

92g

24V DC

-

+

SHIELD

HTR+ HTR-
B60-732-000



IRK-xx

+

-

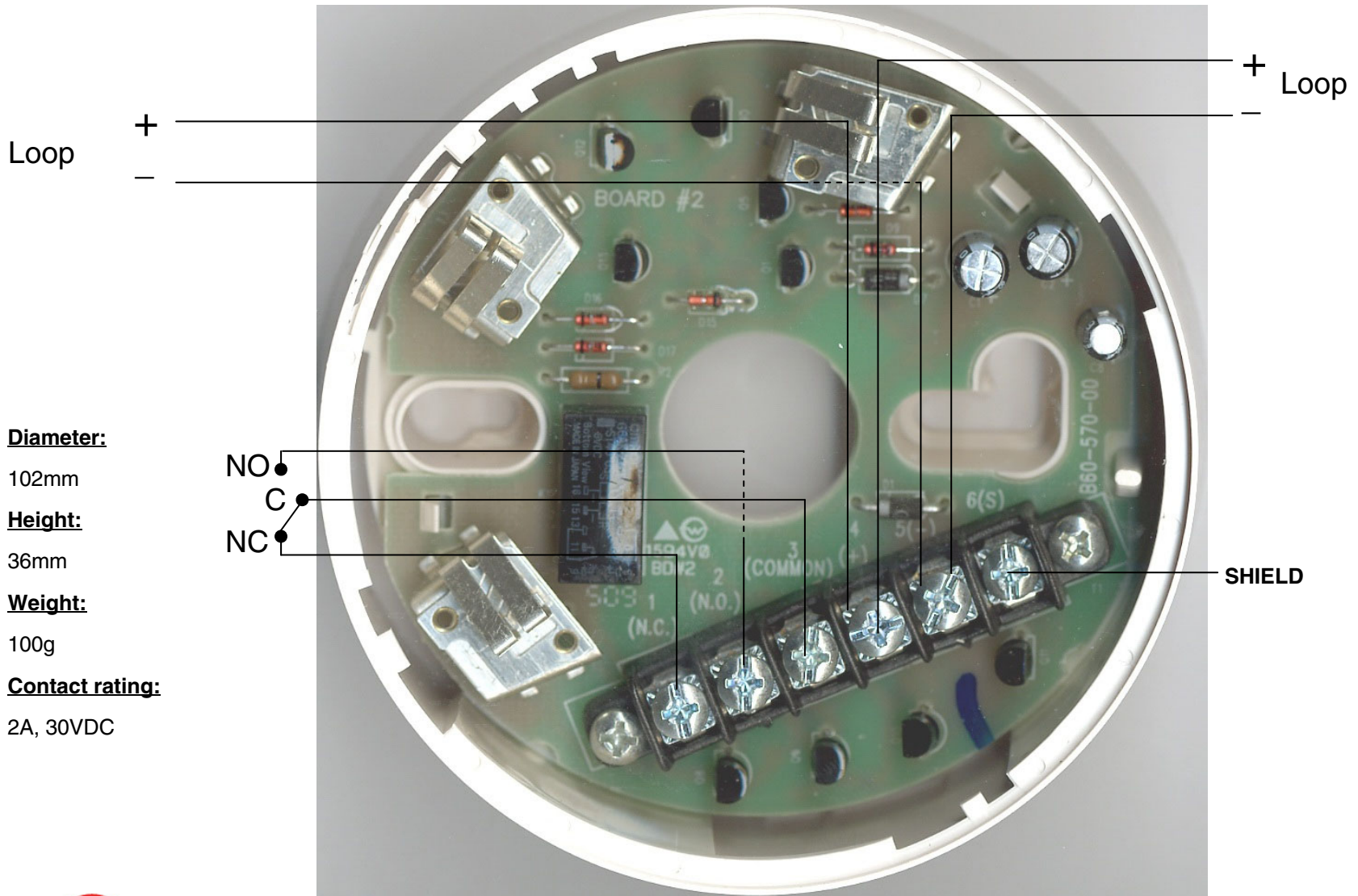
+

Loop

Loop

B524RTE

Honeywell



Diameter:

102mm

Height:

36mm

Weight:

100g

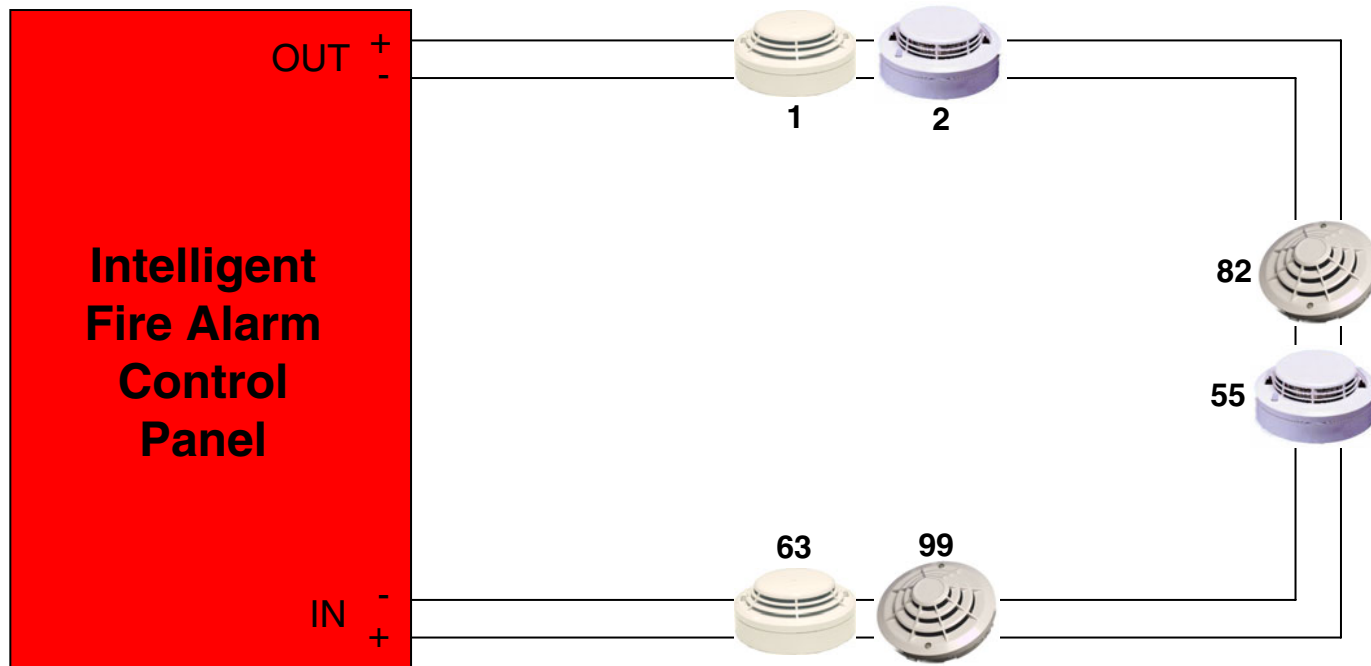
Contact rating:

2A, 30VDC

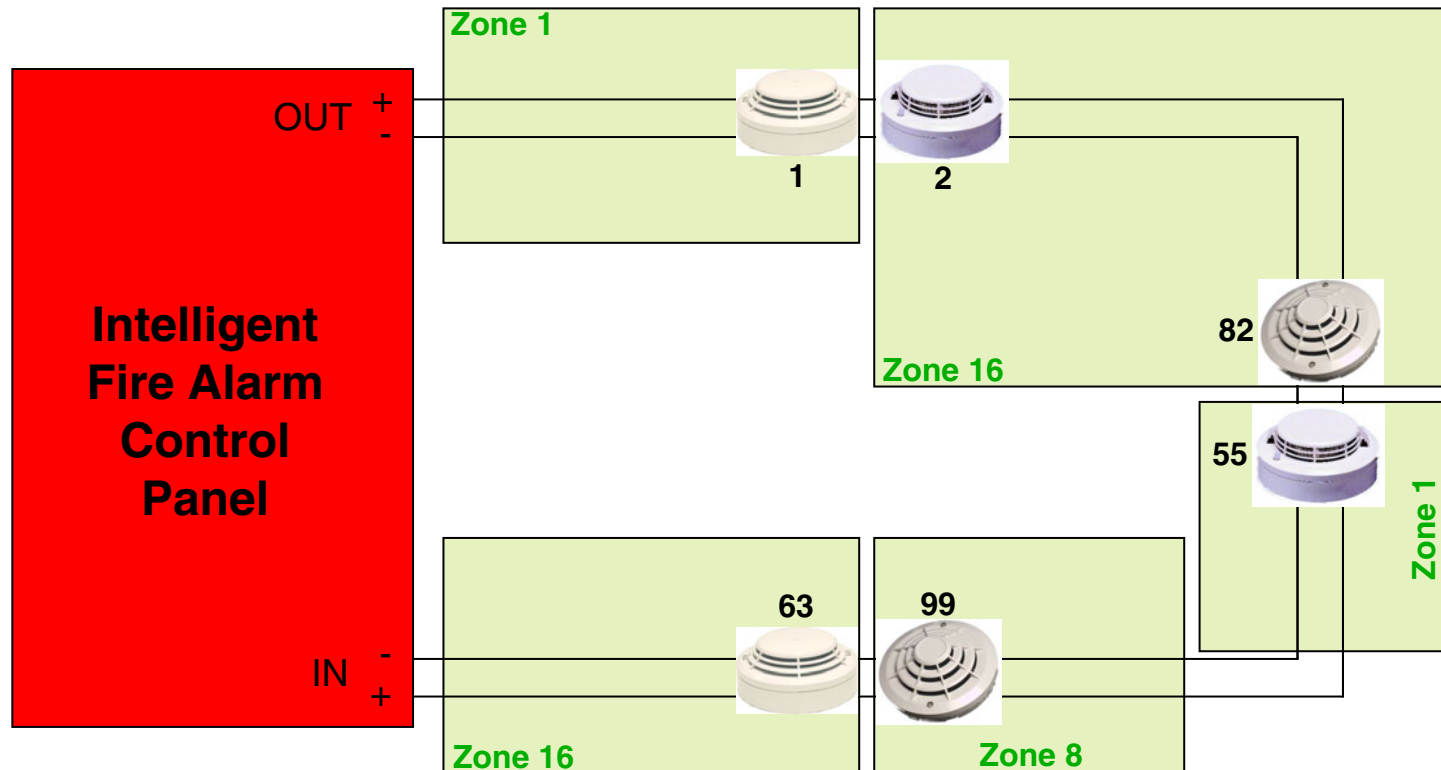
Type of sensors

	NAS	OPTIPLEX	ION	OPT	VIEW	BEAM	IR	UV	TVC	HEAT	HEAT CABLE
Parking covered & ventilated	V	V		V							
Boiler room		V		V			V	V		V	
Rof spaces	V	V		V							
High room	V					V	V	V			
Sport arena						V					
Product's warehouse very flammable							V	V			
Generator's room		V		V			V	V	V		
Laboratory	V	V	V		V		V	V	V		
Wash room		V							V	V	
Incinérateur		V							V	V	
Kitchen		V							V	V	
Clean room	V		V		V						
Switchgear cubicle, local battery	V	V	V	V							
Electrical & computeur room	V	V	V	V	V						
Dusty room	V								V	V	V
Outside, combustible storage								V			V
Large room	V					V	V				
Atrium	V	V	V	V		V	V				
Pneumatic transport	V							V			
Machine protection								V			V
Cold room	V										
Road tunnel	V							V			V

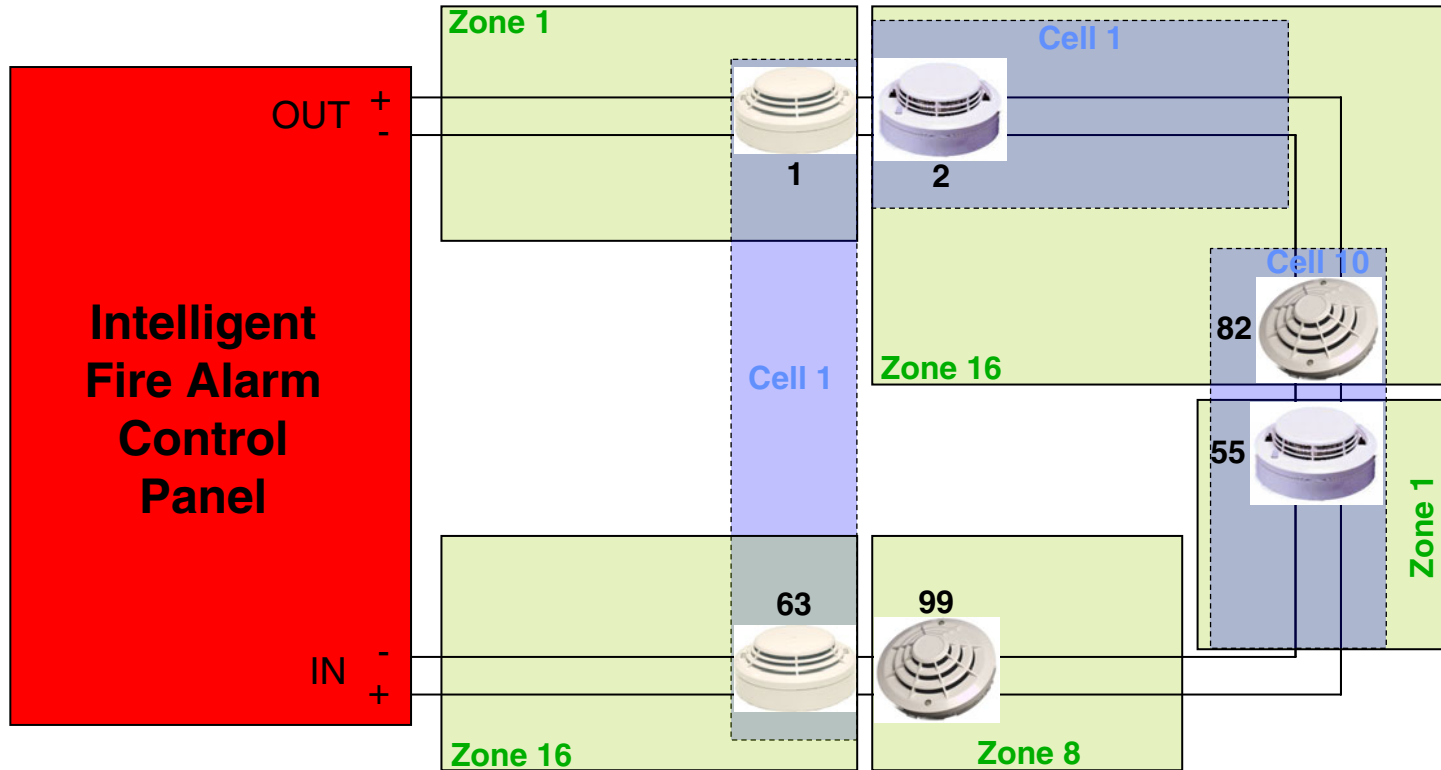
The choice of the type of detector according to the risk is proposed by this table as an indication, other parameters (geometry of the room, environment...) can influence the determination of the detectors to be set up.



Sensors : Zones



Sensors : Zones and cells



Modules

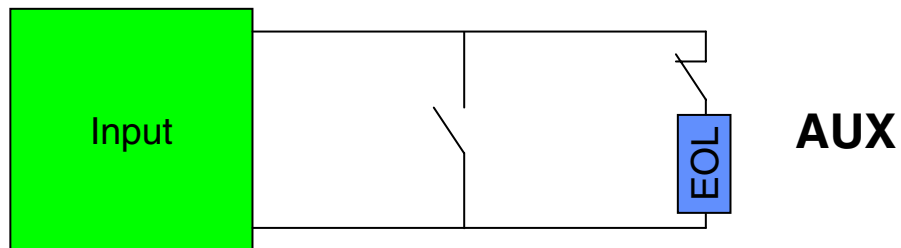
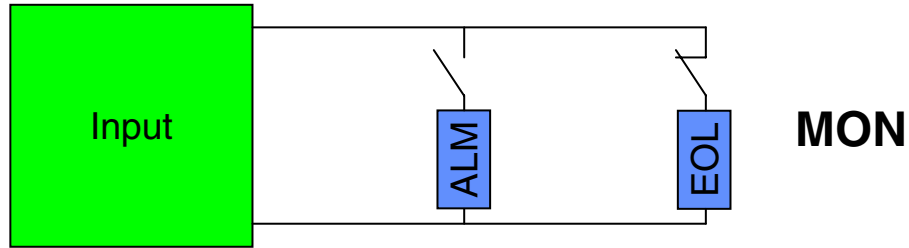


<u>Old Ref.</u>	<u>New Ref.</u>	<u>Type</u>
M500KAC	M700 KAC	Manual Call Point (MCP)
MMX-1E	M710	Single supervised input
//	M720	Double supervised input module
CMX-2E	M701	Single supervised output or relay (30V/2A)
//	M721	Double supervised input + single relay output
//	M701-240	Single 240VAC / 5A relay
ZMX-1E	M710-CZ	Conventional zone input
MMX-101E	MMX-102E	Addressable micro monitor
//	MMX-10M	10 Way addressable Input
//	CMX-10RM	10 Way addressable Relay (30VDC/1A)
//	MCX-55M	5 addr. Inputs + 5 addr. Outputs (30VDC/1A)
//	MULTI-MX	16 Way addressable card
//	ISOX-8	8 isolator card
ISO-XE	M700X	Single isolator

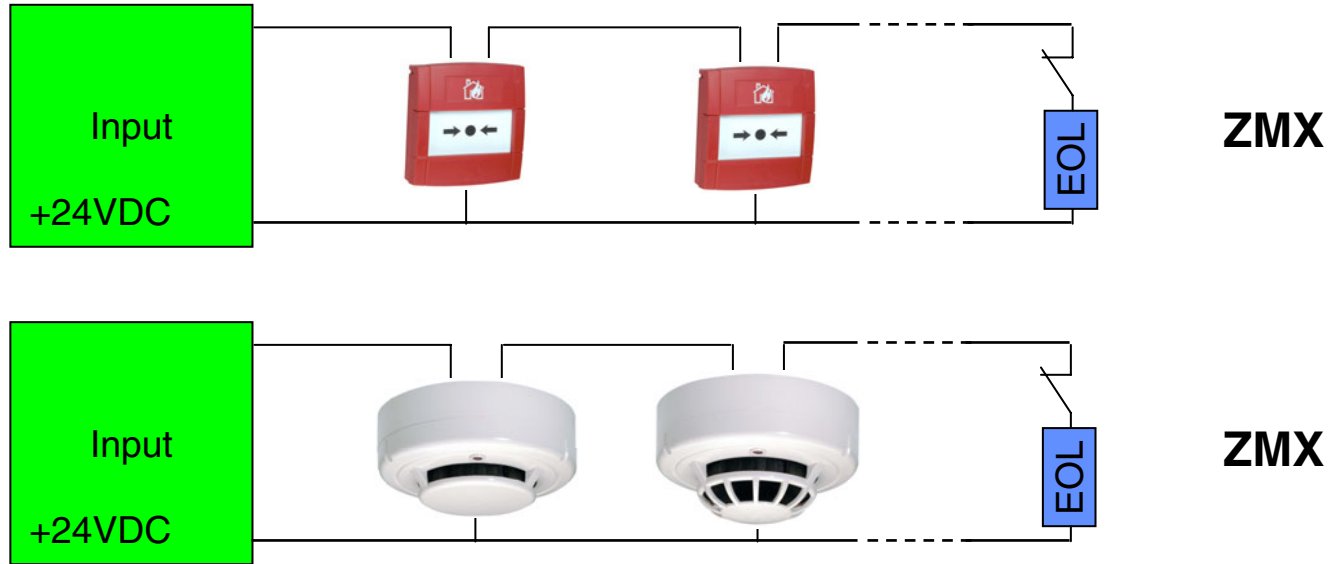
Mnemotechnical easy way for series 700

Module	Serie	Number of inputs	Number of outputs	End of reference
M	7	1	0	//
M	7	2	0	//
M	7	0	1	//
M	7	2	1	//
M	7	1	0	-CZ
M	7	0	1	-240

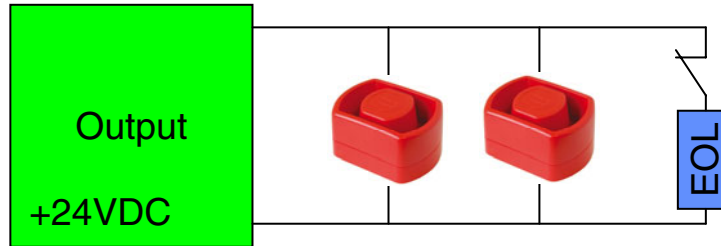
Modules - inputs



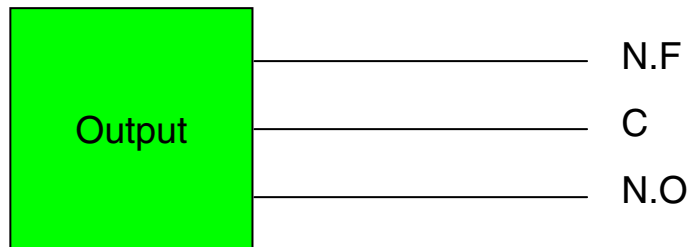
Modules - inputs



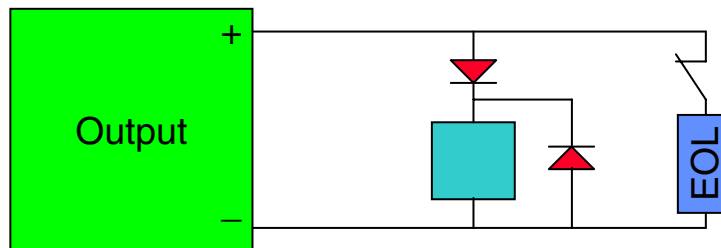
Modules - outputs



BELL

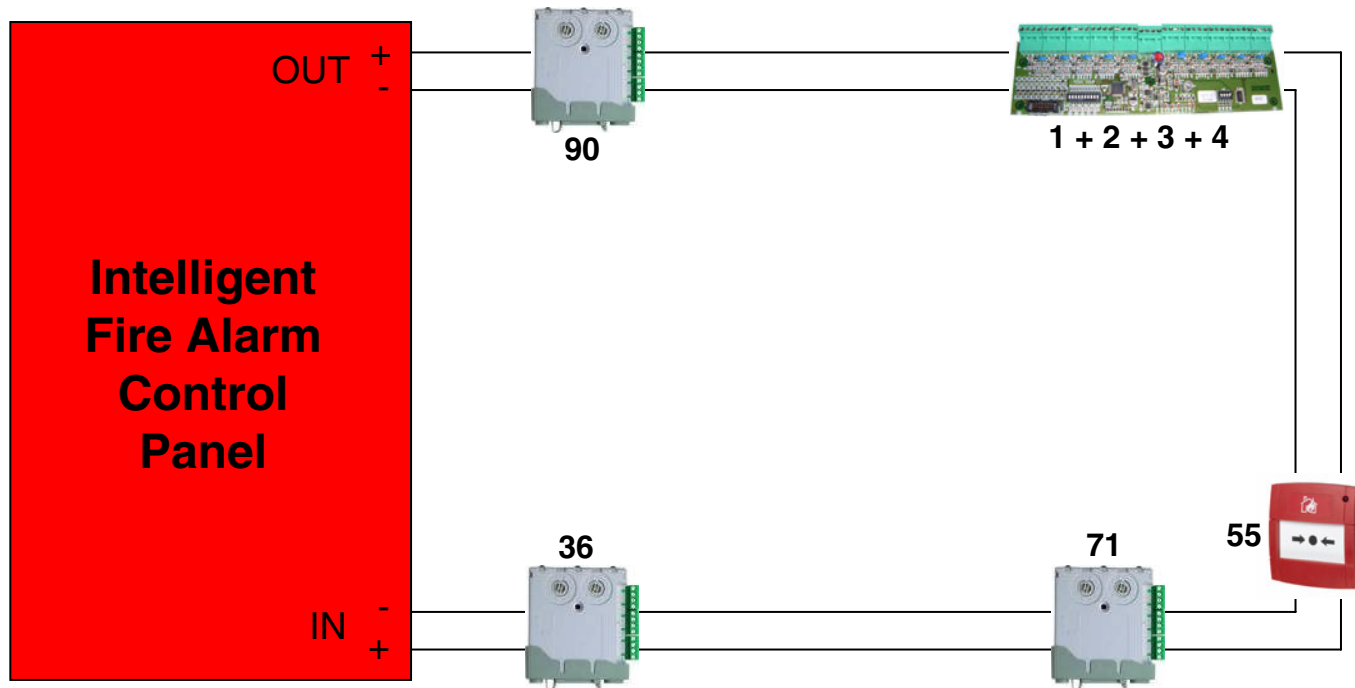


**RLY or
CTRL**

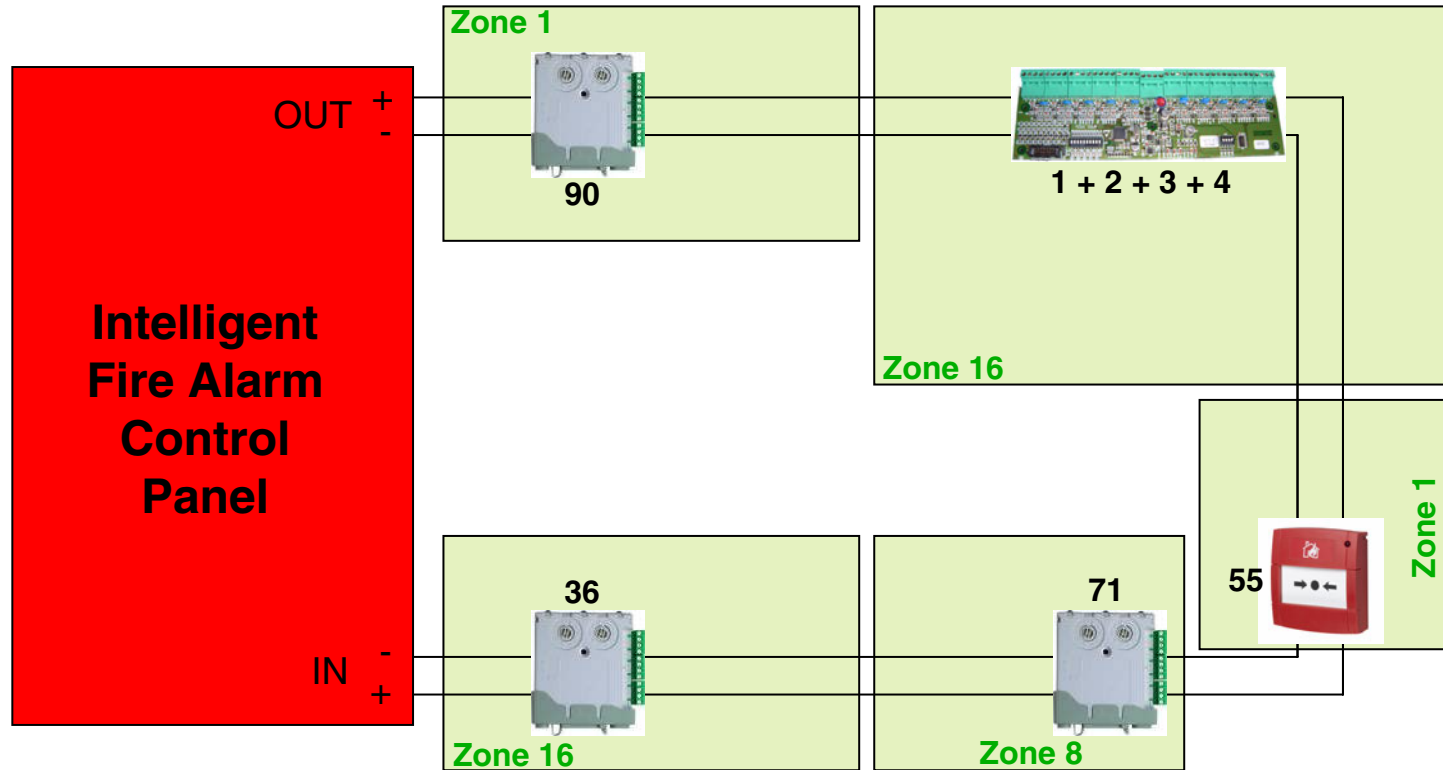


**CTL or
CTRL**

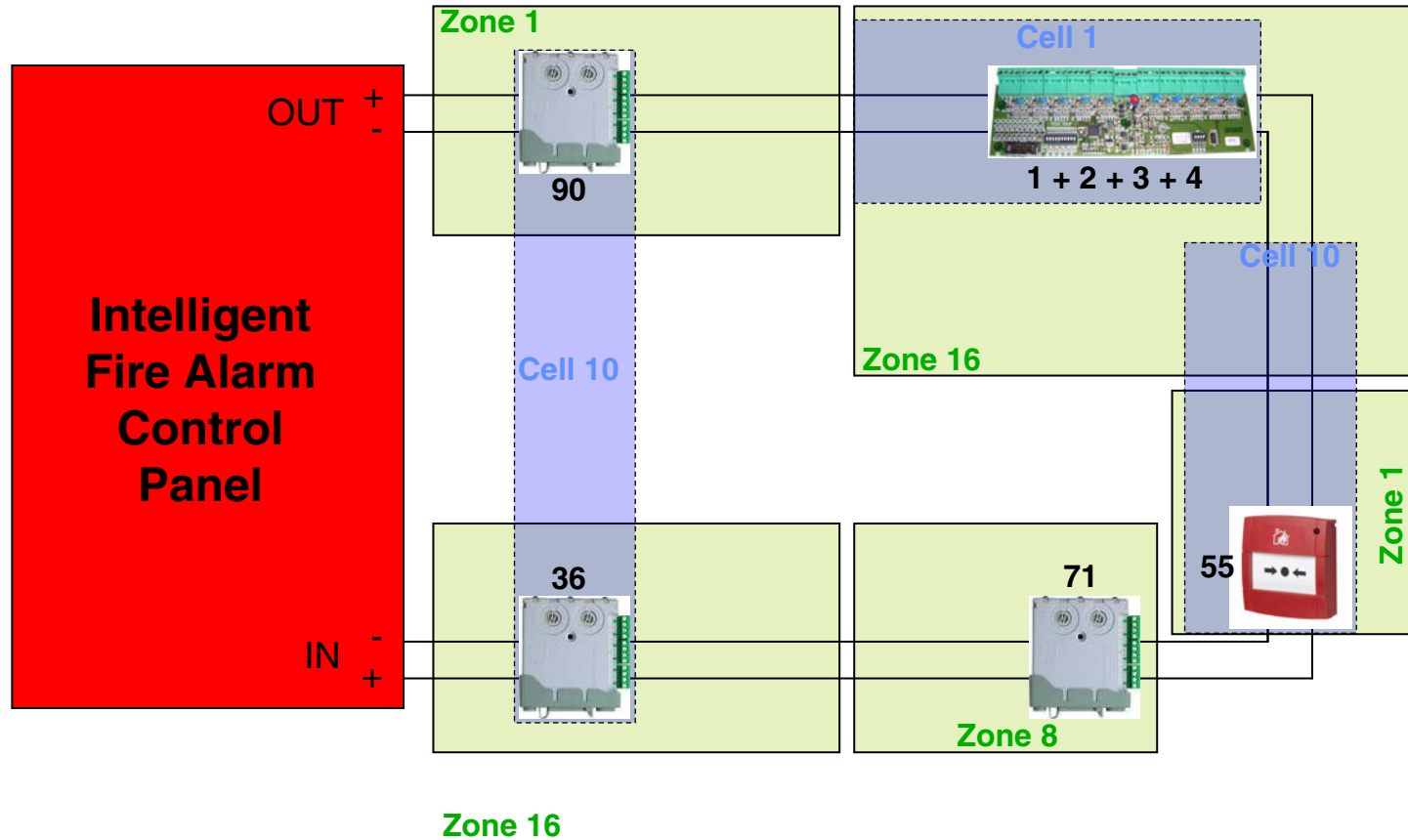




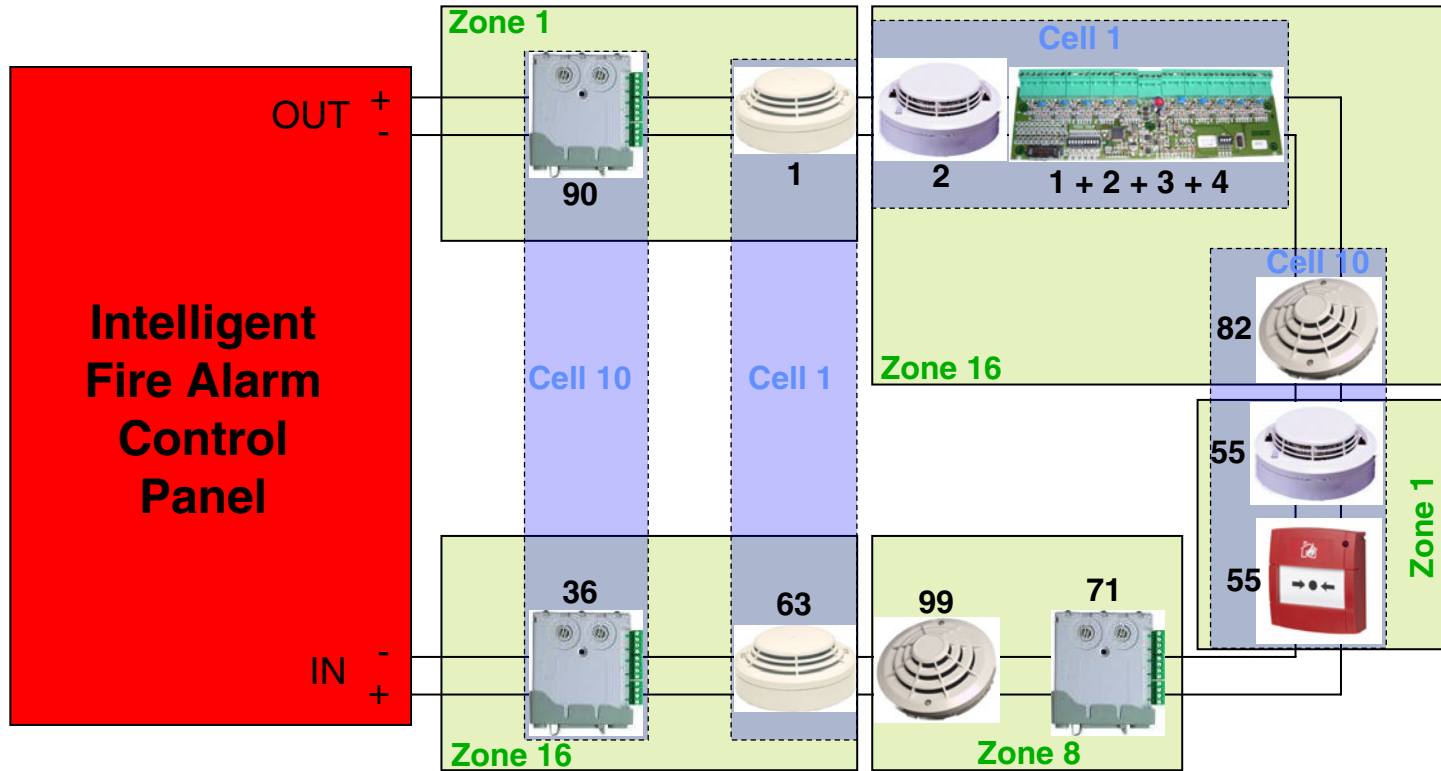
Modules : Zones



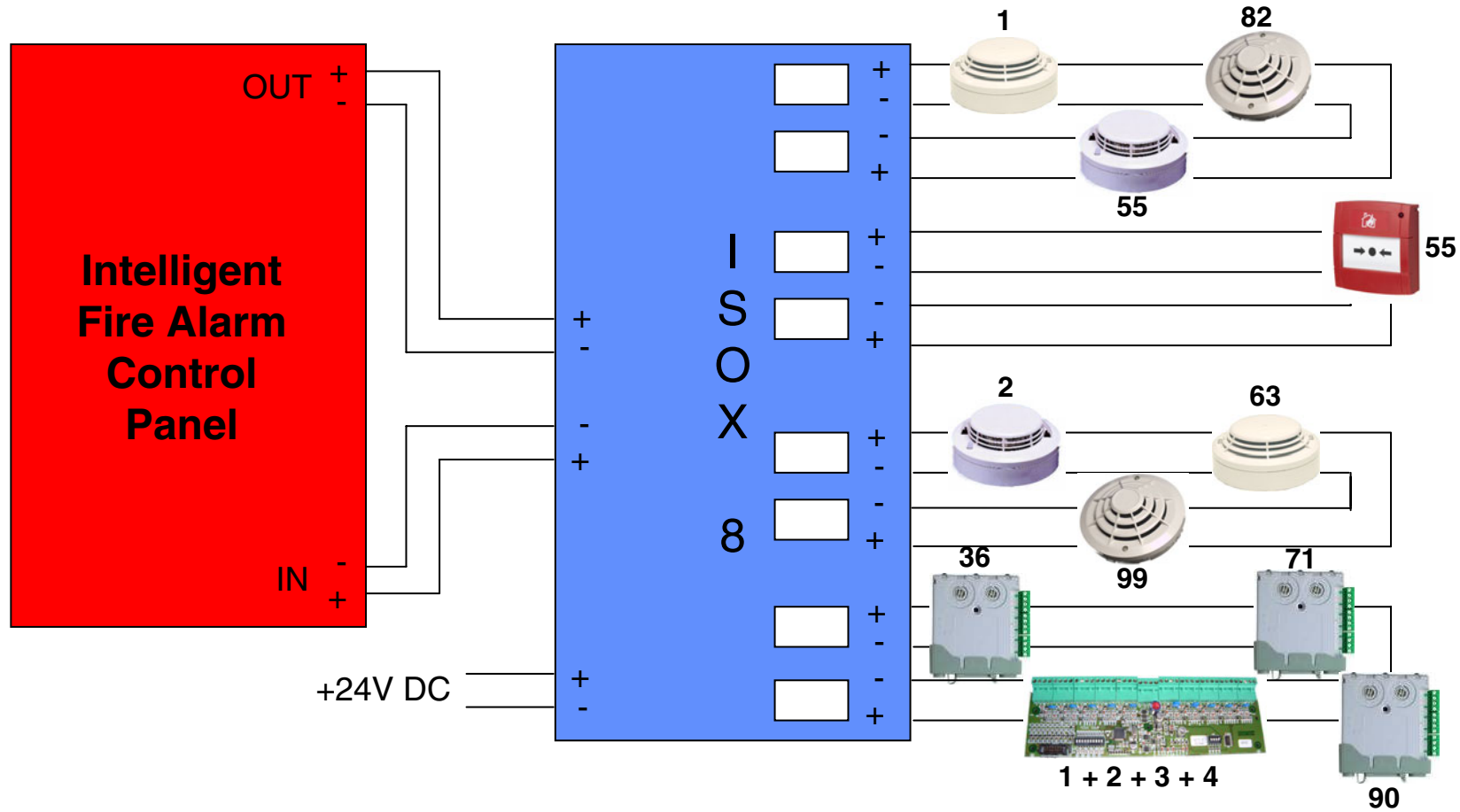
Modules : Zones and cells



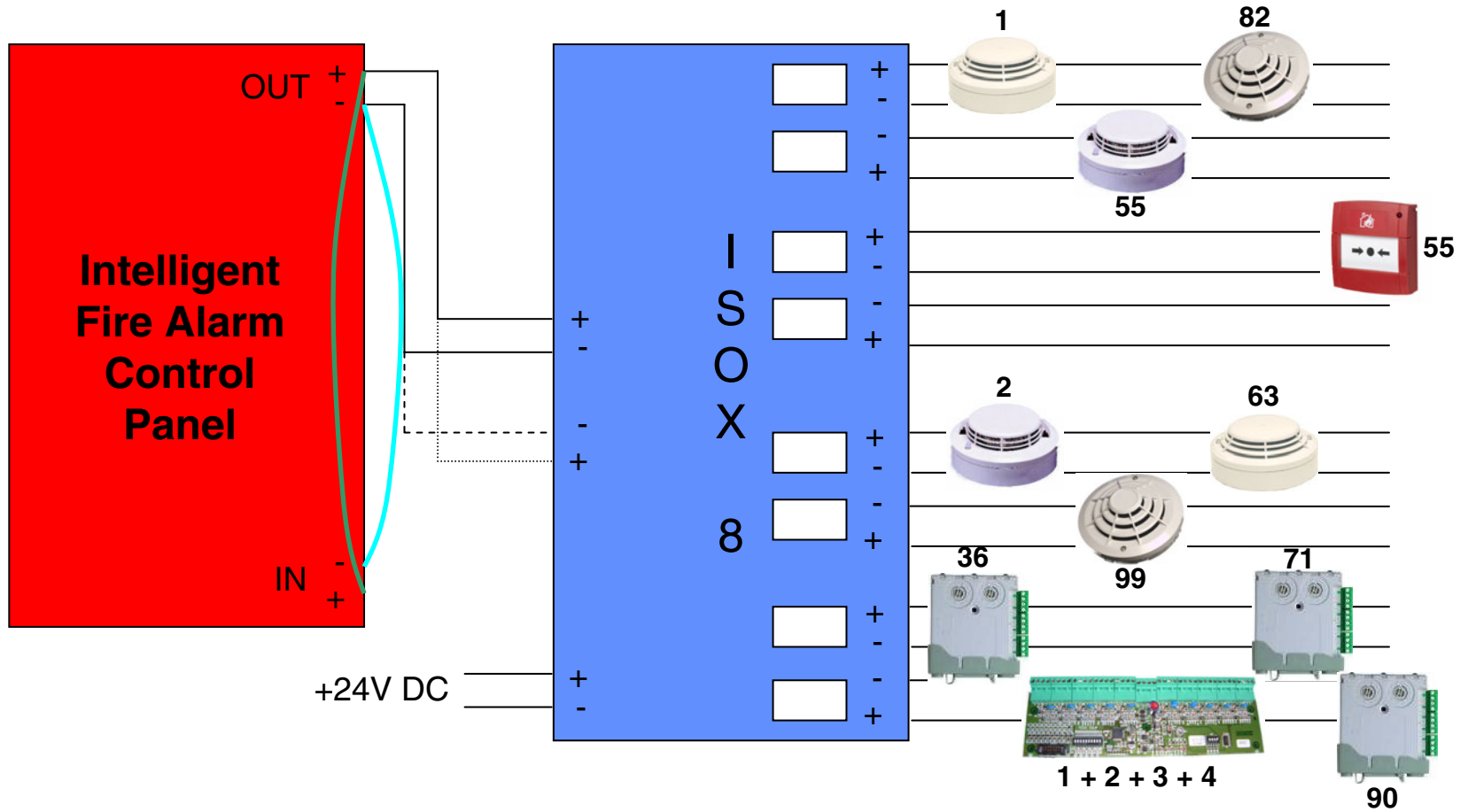
Technically



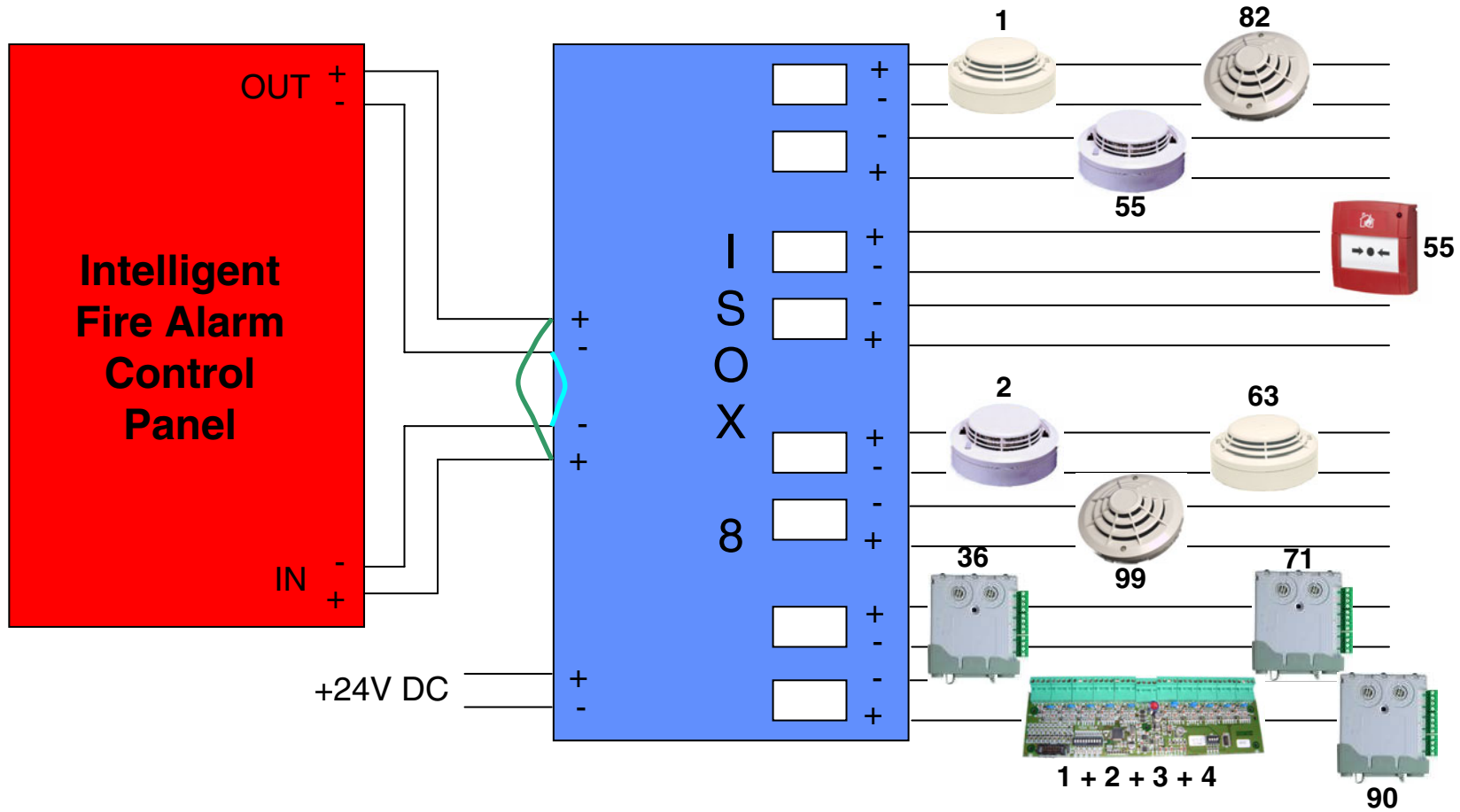
ISOX-8



ISOX-8



ISOX-8



Open Loop

