

Esmi Intellia detectors

Processing times

All Intellia detectors have five different operating modes. These modes are sent and stored to the detector. All modes include different sensitivity, processing and response settings, generally called "internal algorithms".

On the list below there is a character "Minimum time to alarm". This time is not a delay time! It is the time the detector intelligence uses to process the signals and determine what is going on.

Intellia optical detector, EDI-20

Mode	Alarm threshold %/m	Minimum time to alarm (sec)								
1	1.4	5								
2	1.4	30								
3	2.1	5								
4	2.1	30								
5	2.8	5								
Compensation rate complies with EN54-7:2000										

Intellia multisensor detector, EDI-30

Mode	Smoke S (grey s	ensitivity smoke)	Temperature Sensi- tivity (relative)	Response Type	Minimum Time to Alarm (seconds)					
	%/m	%/ft								
1	1.1	0.35	High	Multisensor	20					
2	2.1	0.7	No response to heat	Optical	30					
3	2.8	0.9	Low	Multisensor	20					
4	4.2	1.4	High	Multisensor	20					
5	No response	e to smoke	Static	Heat A1: 57°C ±	30					

Intellia heat detector, EDI-50

Mode	Class	Application To	emperature 'C	Static Response Temperature [•] C											
	(EN54-5:2000)	Тур	Max	Min	Тур	Max									
1	A1R	25	50	54	57	65									
2	A2	25	50	54	61	70									
3	A2S	25	50	54	61	70									
4	CR	55	80	84	90	100									
5	CS 55 80 84 90 100														
For air ten	peratures in the ra	ange 15 °C to 55	°C, the analogue	value for a d	etector in mo	de 1 will									
correspond	approximately to	the air temperat	ure.												

Intellia CO- detector, EDI-60

Mode	Alarm Threshold	Minimum Time	Typical application
	(ppm)	to Alarm (sec)	
1	30	60	Sleeping with no ambient CO
2	45	30	General use fast response such as supplementary protection in atria
3	45	60	General use and sleeping risk with some low-level CO
			(such as from light smoking or an unventilated gas fire)
4	60	30	General smoking are and supplementary detection of deep seated
			fires such as laundry rooms
5	75	30	Supplementary use in kitchen or boiler room

Intellia ION- detector, EDI-10

Mode	Alarm Threshold v value	Minimum Time to Alarm (sec)
1	0.45	5
2	0.45	30
3	0.70	5
4	0.70	30
5	1.0	5
Compensa	tion rate complies with	EN54-7:2000

How to select the right detector type

	Ionisation	Optical	Multisensor	Heat	СО
Overheating/thermal decom-	Poor	Very good	Very good	Very poor	Very poor
position					
Smouldering/glowing combus-	Moderate/good	Good	Good	Very poor	Excellent
tion					
Flaming combustion	Very good	Good	Good	Poor	Poor
Flaming with high heat output	Very good	Good	Very good	Moderate/good	Moderate
Flaming – clean burning	Poor	Very poor	Moderate/good	Moderate/good	Very poor

	Clean room, EDP suite						Clean room, EDP suite					Hotel room, Studio apart- ment, Small flat (<50 m ²)					Office, Long corridor, Hospital wards, Light industrial factory					Warehouse Bar						Load Ca (end ven	ling ir pa close tilat	bay ark d & ion)	,		Ki La	itche nund	en, Iry		Boiler room				
Mode	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5						
MULTI	R							R	S				S	S			S	R	S	S		S	S	R	S			S	S			S									
OPTICAL	S							S	S	S			S	S	S				S					S										S	S						
ION	S							S	S	S			S	S	S			S	S					S	S																
СО						S		S				А						А	Α										S	S					S						
HEAT																S	S				S	S						R	S	S			S		R						

Key:

 $\mathbf{R} = \mathbf{Recommended}$

S = Suitable

A = Suitable as supplement