HYUNDAI

Addressable smoke detector HYU-FA-ASD001

USER MANUAL

HYUNDAI

Addressable smoke detector

Installation Instructions

Cautions

ELECTRICAL HAZARD: Disconnect power from equipment prior to making any internal adjustments. Service should only be performed by qualified personnel.

FRAGILE: Inspect the equipment prior to installation. Do not install the equipment if damage is apparent. Do not attempt to disassemble this equipment. If damaged, return to the supplier.

ELECTROSTATIC HAZARD: This is sensitive electronic equipment. Apply safe ant-static practices when handling this equipment.

CIRCUIT LIMITATIONS: The maximum number of detectors connected to a single detection zone is limited by the control and indicating equipment, and may be limited by local regulations.

Introduction

Analogue addressable photoelectric smoke detectors are microprocessor controlled state-of-the-art detectors suitable for connection to 2-wire addressable fire detection control and indicating equipment.

These instructions provide trained installation personnel with details to install and commission smoke detectors for optimum performance.

Preparation

Before commencing installation, ensure all equipment and tools to mount and connect the equipment are available, such as drills, mounting screws, cables and ladders.

Smoke detectors can be installed with the following bases and accessories.

Description	Part number
4-terminal 102 mm low profile base	HYU-FD- 4TRB001
8-terminal 102 mm low profile base	HYU-FD- 8TRB001
Remote indicator ^a	HYU-FD- RI001

^a Requires 8-terminal base

Installation

Base

The base can be mounted directly onto an electrical junction box such as an octagonal (75 mm, 90 mm or 100 mm), a round (75 mm), or a square (100 mm) box without using any type of mechanical adapter.

- 1. Feed the conductors through the middle of the base for termination to the base contacts.
- 2. Mount the base on the junction box or directly onto a flat surface.
- 3. Mount the base to the surface using fixing screws that are suitable to securely fix the base to the surface.

Wiring

Base terminals accept (0.4 ~ 2.5) mm² conductors.

- 1. Strip the conductor insulation to expose 5 mm of the conductor.
- 2. Connect the conductors to the base terminals as shown in Fig. 1.

WARNING: Take care to ensure the insulation does not get clamped by the terminal contact.

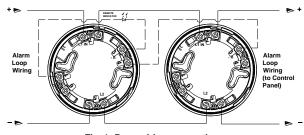


Fig. 1: Base wiring connections

Note 1: 8-terminal base required if a remote indicator is installed. Note 2: If a remote indicator is not installed, the polarity of the zone circuit wiring may be reversed.

WARNING: Do not short-circuit terminals 2 and 5.

3. Check the wiring for continuity, short circuits and earth faults.

Detector

WARNING: Do not install the detector head until the area is thoroughly cleaned of construction debris, dust, etc.

 Select the detector address and set the address as shown in Table 1 by adjusting the DIP switch settings located on the underside of the detector body.

Note: Addresses 0, 126 and 127 cannot be used.

- 2. Align the detector alignment mark with the short alignment mark in the base, as shown in Fig. 2.
- 3. Mate the detector head onto the base and rotate it clockwise to secure it. The long alignment marks should be aligned.

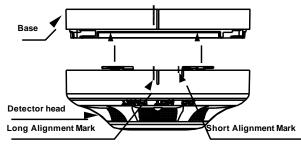


Fig. 2: Fitting the detector to the base

Commissioning

Smoke Detector

- Ensure all the alarm signal services, releasing devices and extinguisher systems are disabled during the commissioning period.
- Connect power to the detector for approximately 1 min. Check that the detector is recognized and in the quiescent condition at the control and indicating equipment. If the detector is not shown or shows in fault, check the wiring for the correct voltage and earth leakage. Replace the detector if necessary.
- 3. Allow smoke from a cotton wick or a test smoke aerosol to enter the detector-sensing chamber for at least 10 s. When sufficient smoke has entered the chamber, the detector will signal an alarm, by continuous illumination of the LED.
- 4. Upon alarm, immediately remove the smoke source.
- 5. Reset the detector from the control and indicating equipment.
- 6. Check that the detector LEDs are off and the control and indicating returns to the quiescent condition.

Remote Indicator (where fitted)

Check that the indicator illuminates at the same time as the detector LED.

Final Conditions

Ensure all the alarm signal services, releasing devices and extinguisher systems disabled for the commissioning are returned to their previous condition.



References							
Document	Description						
31-0043	Analogue addressable smoke detector datasheet						

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	Table 1 – DIP switch address settings											
	Most significant nibble											
1	++	0000	1000	0100	1100	0010	1010	0110	1110			
Least significant nibble	0000	^a	16	32	48	64	80	96	112			
	1000	1	17	33	49	65	81	97	113			
	0100	2	18	34	50	66	82	98	114			
	1100	3	19	35	51	67	83	99	115			
	0010	4	20	36	52	68	84	100	116			
	1010	5	21	37	53	69	85	101	117			
	0110	6	22	38	54	70	86	102	118			
	1110	7	23	39	55	71	87	103	119			
	0001	8	24	40	56	72	88	104	120			
	1001	9	25	41	57	73	89	105	121			
	0101	10	26	42	58	74	90	106	122			
	1101	11	27	43	59	75	91	107	123			
	0011	12	28	44	60	76	92	108	124			
	1011	13	29	45	61	77	93	109	125			
	0111	14	30	46	62	78	94	110	a			
	1111	15	31	47	63	79	95	111	a			
	^a Address not permitted.											

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