SIEMENS

Floor Repeater

FT3001

Features

- Compact design, flexibly compatible with Siemens fire detection portfolio, Siemens ECO and Flex.
- 2.8-inch full-color LCD screen, manually configurable.
- 24V fire power supply -24VDC external power
- Each Fire Alarm Control Panel can be connected to a maximum of 32 or 64 Floor Repeaters (depends on Protocol Type selected in panel configuration.)
- Supports a maximum communication distance of 1500 meters.

Use

- Display a maximum of 252 fire alarm/fault events.
- Event display is consistent with the Fire Alarm Control Panel.
- All displayed information can be viewed by Query.
- After a fire/fault occurs, the buzzer can be manually silenced.

Functions

The Floor Repeater is the display and operation terminal in a fire detection system:

Event Display	Operation
● Fire Alarm ● Fault	● Information Query ● Silence/Return

The Floor Repeater Display can synchronously display the textual information of the Fire Alarm Control Panel(FACP).

Mechanical design

Mechanical design

The wiring base and main body of the FT3001 adopt a split design. The base is secured by bolts, and the base is connected to the main body via sliding tracks.

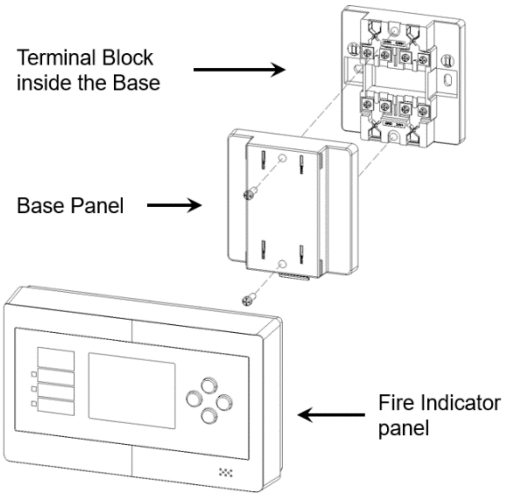

Figure 1 Product Exploded View

Sizing

Unit: mm

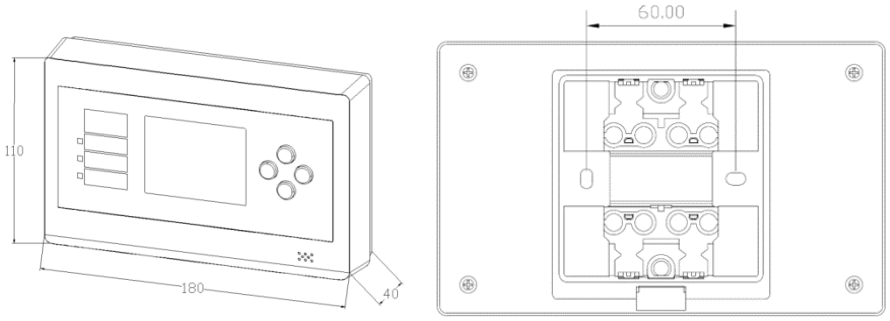

Figure 1 Dimensions

Type summary

Type	Order number	Inputs	Outputs
FT3001	S54438-F8-A1	-	-

Product documentation

Topic	Title	Document ID:
Product manual	FT3001_Floor Repeater	A6V15441944_en--_a

Add the following fragment if standards and directives refer to documents in the section that are available from SID, e.g. declarations of conformity, environmental declaration:

Related documents such as the environmental declarations, declarations of conformity, etc., can be downloaded from the following Internet address:

www.siemens.com/bt/download

Notes

Safety

⚠ CAUTION	
⚠	**National safety regulations** Failure to comply with national safety regulations may result in personal injury and property damage. • Observe national regulations and comply with the appropriate safety regulations.

Body

Maintenance

- Conduct a visual inspection of all fire detection equipment once a year. Equipment with severe contamination or mechanical damage must be replaced.

- Regardless of the environment, devices that have been in use for 12 years must be replaced.
- Do not discard the product randomly after it is scrapped. Dispose of it in accordance with relevant national regulations such as the Administrative Regulations on the Recovery and Treatment of Waste Electrical and Electronic Products.

To ensure the product's safety performance do not modify this product!

Disposal

	This symbol or any other national label indicates that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to Siemens information on disposal.

Technical data

Technical data	
Operating Voltage	DC 12 ~ 33V
Operating Current (Quiescent)	29mA
Operating Current (Active)	40mA
Operating Temperature	-10 ~ +50℃
Storage Temperature	-20 ~ +60℃
Relative Humidity	⩽95% (non-condensing)
Communication Protocol	FRT-NET
Terminal Blocks	Signal lines: 1.0 - 1.5 mm² Power lines: 1.0 - 4.0 mm²

Power supply

Power supply	
Operating voltage (24 V~, ⊥, ⏚)	DC 24 V~ -15 / +20 % (PELV)
Frequency	50/60 Hz
Power consumption including connected field devices	Max. 40 mA
Screw terminals for wire cross sections up to	Max. 4.0 mm^2 (12 AWG)
Internal fusing	PTC resettable, 60 VDC, 100 mA (Ihold), 250 mA (Itrip)

Wiring connections

Wiring connections	
Screw Clamp Terminal	CAN bus: Twisted-pair cable, 1.0–1.5 mm², is recommended. 24 V power supply: Twisted-pair cable, 2.0–4.0 mm², is recommended.
Slotted screws	PH1 Phillips driver. Torque: 0.6–0.8 N·m (0.44–0.59 lb-ft).
Wiring lengths for signals	Maximum point-to-point distance for CAN signal lines: 1500 m (4921 ft).

Environmental compatibility

Ambient conditions Products in electrical cabinets or in room applications	
Climatic ambient conditions Operation as per GB 17429	Temperature 0…+40 °C Air humidity 5...95 % (non-condensing)
Mechanical ambient conditions Operation vibration (sinusoidal) (durability) test as per GB 17429	Vibration (sinusoidal) performance complies with the requirements of Clause 4.15 Vibration (sinusoidal) (operation) test and Clause 4.16 Vibration (sinusoidal) (durability) test of GB 17429-2011 "Fire indicating panel".

*) The documents can be downloaded at www.siemens.com/bt/download.

Dimensions

Dimensions (L × W × H): 180 × 110 × 40 mm (7.09 × 4.33 × 1.57 in)

Weight

External	
Color	White, RAL 9003
Weight	0.31Kg

Dimensions

To facilitate installation and maintenance, a minimum clearance of 50 mm shall be provided on all four sides of the panel.

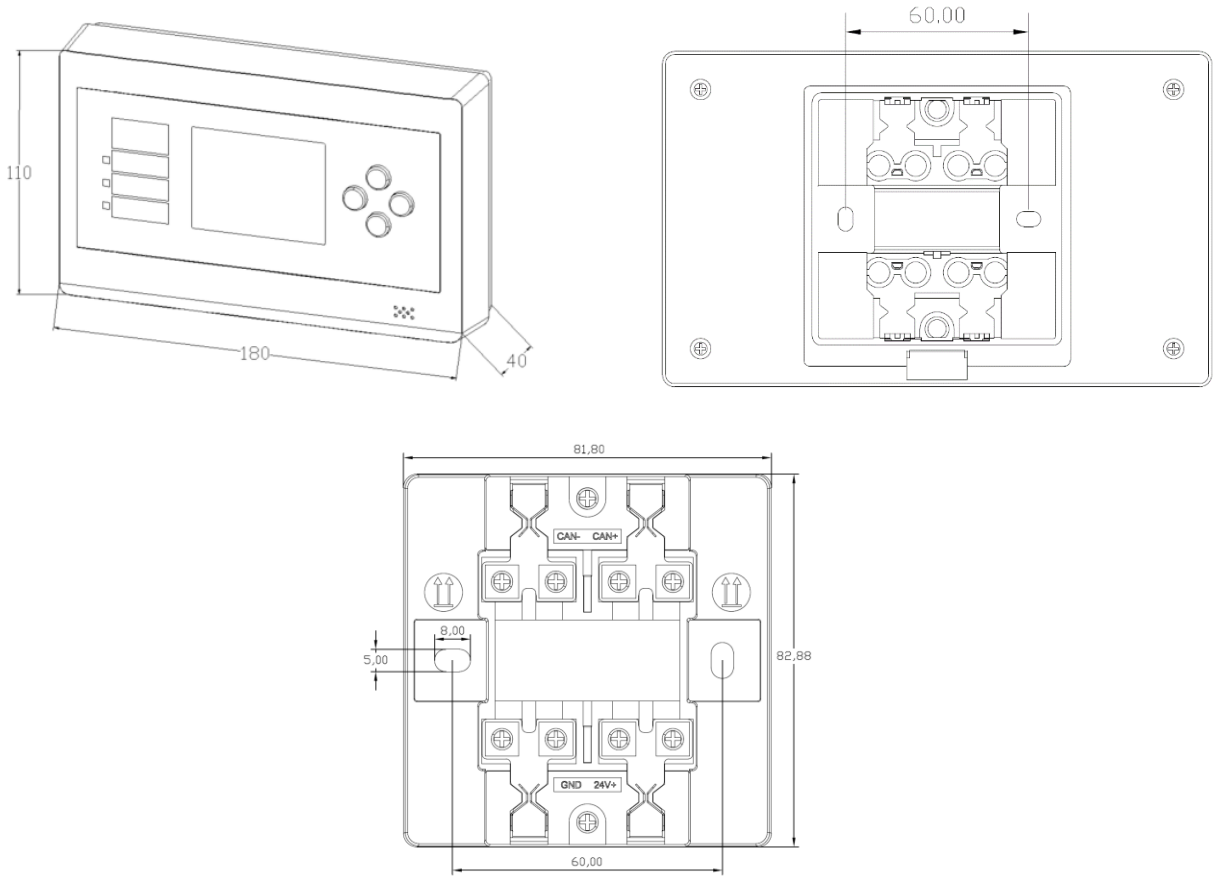

Figure 3 Dimension Drawing

Supplied Accessories / Mounting Hardware:

- Nylon expansion bolt × 2, specification: M6 × 60 mm, drill bit size: 6 mm, recommended hole depth: 70 mm
- ST3.9 × 50 self-tapping screw × 2

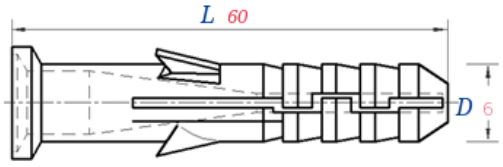

Figure 4 Nylon expansion bolts Drawing

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