

## Product information

# TFT displays for lifts

### LIN bus series

2016

## TFT3204

### Special features

- 4 x I/O
- Buzzer / Speaker

### Customizable visual features

- Logo image
- Arrow images
- Level digits

### Supported lift messages

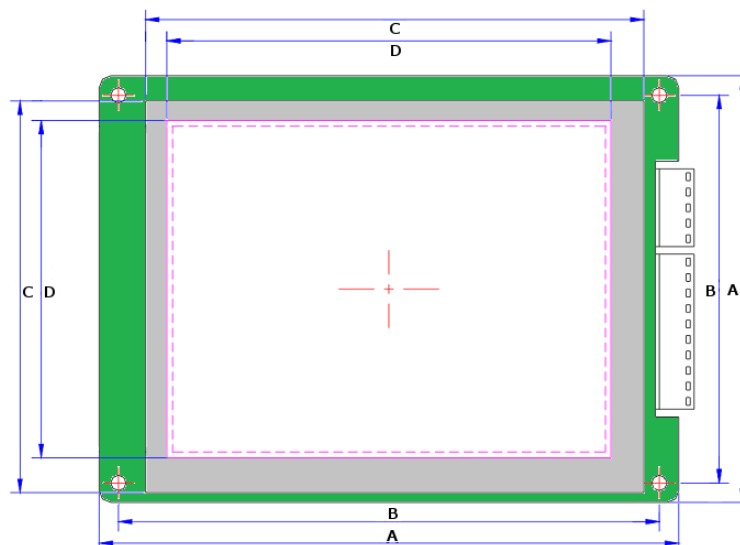
1. Out of order message
2. Inspection message
3. Overload message
4. Fire alarm message
5. Fire brigade operation message
6. Shaft door open message
7. Photocell message
8. Evacuation message or freely programmable, corresponds to EKM's T<sub>TFT</sub>-MSG-8
9. Freely programmable, corresponds to EKM's T<sub>TFT</sub>-MSG-9
10. Freely programmable, corresponds to EKM's T<sub>TFT</sub>-MSG-10

### Dimensions

- Overall dimensions (A) ..... 105 x 48 x 18 mm
- Mounting dimensions (B) ..... 97 x 45 mm (Ø4)
- Cut-out dimensions (C) ..... 81 x 48 mm
- Viewing area (D) ..... 70 x 32 mm (3,2")



Fig. 1: TFT3204



## TFT43E „Eco-Line“

### Customizable visual features

- Logo image
- Arrow images
- Level digits

### Supported lift messages

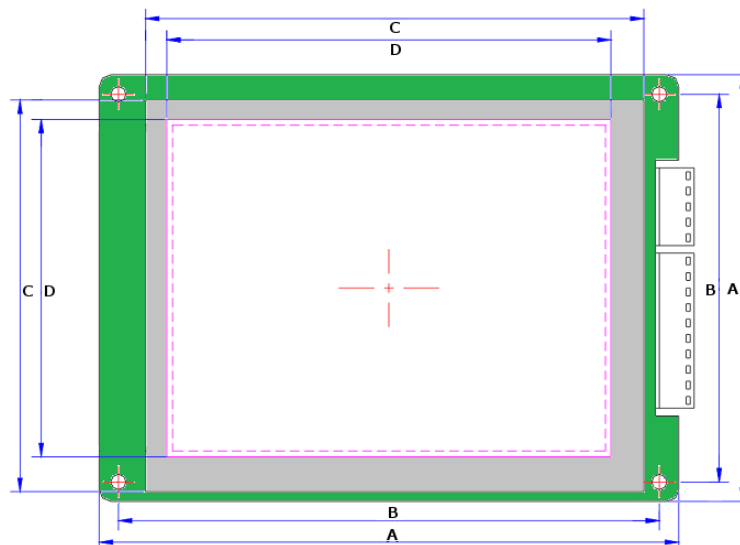
1. Out of order message
2. Inspection message
3. Overload message
4. Fire alarm message
5. Fire brigade operation message
6. Shaft door open message
7. Photocell message
8. Evacuation message or freely programmable, corresponds to EKM's TFF-MSG-8



Fig. 2: TFT43E

### Dimensions

- Overall dimensions (A) ..... 130 x 70 x 16 mm
- Mounting dimensions (B) ..... 118 x 60 mm (Ø4)
- Cut-out dimensions (C) ..... 108 x 70 mm
- Viewing area (D) ..... 96 x 54 mm (4,3")



## TFT56

### Special features

- Micro SD card slot for updates
- 2 optocoupler for emergency call inputs

### Customizable visual features

- Logo image
- Arrow images
- Level digits
- Background image
- Individual floor images
- Emergency call images
- Emergency light function
- Calendar and wall clock
- Slide-show image set
- Scroll effects

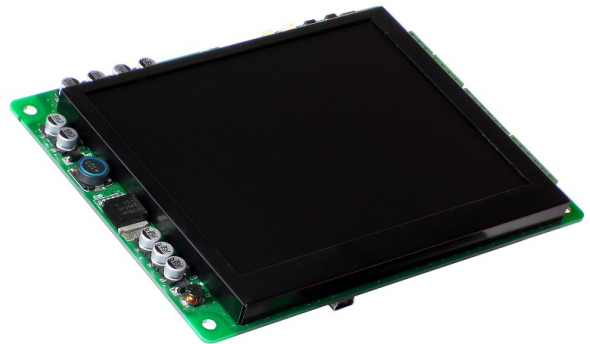


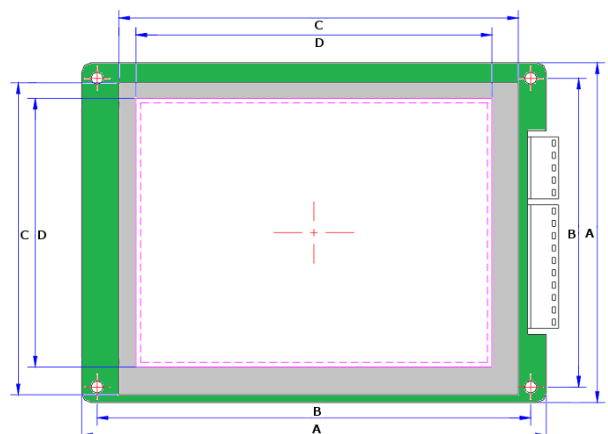
Fig. 3: TFT56

### Supported lift messages

1. Out of order message
2. Inspection message
3. Overload message
4. Fire alarm message
5. Fire brigade operation message
6. Shaft door open message
7. Photocell message
8. Evacuation message or freely programmable, corresponds to EKM's TTF-MSG-8
9. Freely programmable, corresponds to EKM's TTF-MSG-9
10. Freely programmable, corresponds to EKM's TTF-MSG-10
11. Emergency call feedback, corresponds to TTF's OPT01 (for example: Speak)
12. Emergency call feedback, corresponds to TTF's OPT02 (for example: Alarm)

### Dimensions

- Overall dimensions (A) ..... 150 x 110 x 19 mm
- Mounting dimensions (B) ..... 140 x 100 mm (Ø4)
- Cut-out dimensions (C) ..... 129 x 112 mm
- Viewing area (D) ..... 116 x 87 mm (5,6")



## TFT70

### Special features

- Micro SD card slot for updates
- 2 optocoupler for emergency call inputs

### Customizable visual features

- Logo image
- Arrow images
- Level digits
- Background image
- Individual floor images
- Emergency call images
- Emergency light function
- Calendar and wall clock
- Slide-show image set
- Scroll effects



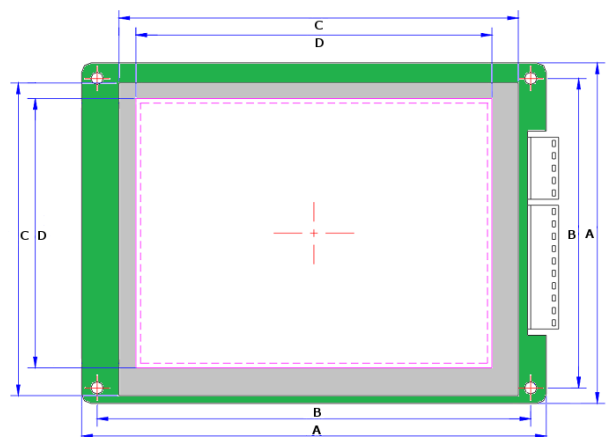
Fig. 4: TFT70

### Supported lift messages

1. Out of order message
2. Inspection message
3. Overload message
4. Fire alarm message
5. Fire brigade operation message
6. Shaft door open message
7. Photocell message
8. Evacuation message or freely programmable, corresponds to EKM's TFF-MSG-8
9. Freely programmable, corresponds to EKM's TFF-MSG-9
10. Freely programmable, corresponds to EKM's TFF-MSG-10
11. Emergency call feedback, corresponds to TFF's OPT01 (for example: Speak)
12. Emergency call feedback, corresponds to TFF's OPT02 (for example: Alarm)

### Dimensions

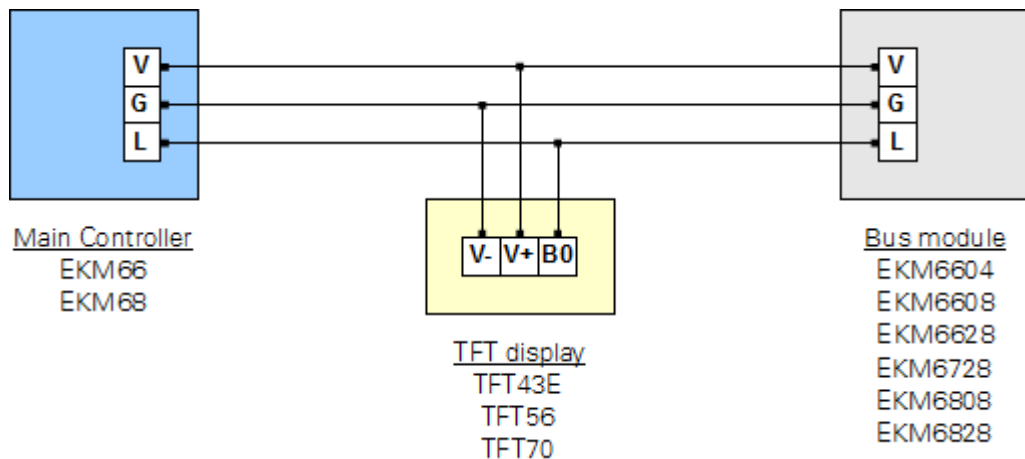
- Overall dimensions (A) ..... 175 x 127 x 20 mm
- Mounting dimensions (B) ..... 160 x 115 mm (Ø4)
- Cut-out dimensions (C) ..... 167 x 117 mm
- Viewing area (D) ..... 152 x 91 mm (7,0")



## Wiring information

### 1. How to connect the TFT to the LIN bus

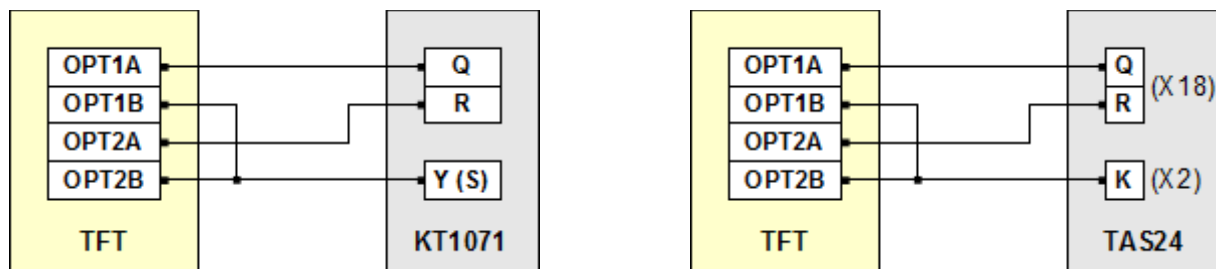
At least one EKM6xxx LIN bus module must be present on the bus. LIN bus modules and TFT displays can be freely mixed on the bus.



### 2. How to connect the TFT to KT1071/TAS24 for emergency call indicators

Please note:

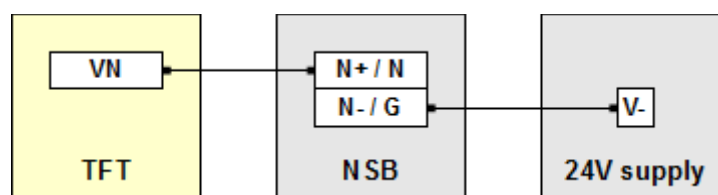
- This feature is only supported by TFT56 and TFT70.



### 3. How to connect the TFT to NSB and 24V supply for emergency light

Please note:

- This feature is only supported by TFT56 and TFT70.
- At NSB12/NSB24 the terminals are labelled "N+" and "N-"; on newer NSB's "N" and "G".



## Technical information

Further technical details of our TFT displays:

|                          | TFT3204                      | TFT43E                | TFT56                 | TFT70                 |
|--------------------------|------------------------------|-----------------------|-----------------------|-----------------------|
| Colour depth             | 65,535                       |                       |                       |                       |
| Resolution X x Y (pixel) | 400 x 240                    | 480 x 272             | 640 x 480             | 800 x 480             |
| Dot pitch (mm)           | 0,176 x 0,176                | 0.198 x 0.198         | 0.1764 x 0.1764       | 0.19 x 0.19           |
| Viewing angle X-axis     | +70 / -70                    |                       |                       |                       |
| Viewing angle Y-axis     | +70 / -50                    |                       |                       |                       |
| Contrast ratio           | 500 : 1                      |                       |                       |                       |
| Temperature range        | -10 to 60 °C                 |                       |                       |                       |
| Humidity range           | 10 to 90% RH                 |                       |                       |                       |
| Luminance (white)        | 300 cd/m <sup>2</sup>        | 300 cd/m <sup>2</sup> | 200 cd/m <sup>2</sup> | 300 cd/m <sup>2</sup> |
| LED backlight MTBF       | 60,000 hours                 |                       |                       |                       |
| Operating voltage        | 11 to 27 VDC                 |                       |                       |                       |
| Current consumption      | 100 mA (@24VDC)              | 120 mA (@24VDC)       | 200 mA (@24VDC)       | 300 mA (@24VDC)       |
| Memory                   | 4 MB                         | 500 KB                | 8 MB                  | 8 MB                  |
| Micro SD card slot       | No                           | No                    | Yes                   | Yes                   |
| Optocoupler inputs       | No                           | No                    | 2                     | 2                     |
| PC interface             | USB interface (with adapter) |                       |                       |                       |