Luminous fields and indicators
PLATES P 50 Q

Pane 50, square

- Square, 44.9 mm x 44.9 mm
- Film (positive, negative, colour film)
- Height of characters 18 mm
- Height of symbols 27 mm

Colour values for colour films:
- RAL shade codes
- As per sample

Especial quick changing of the films by removable front part.

PLATE MATERIAL CODE

<table>
<thead>
<tr>
<th>Material code</th>
<th>Type Label P 50 (example)</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. 1 / 4</td>
<td>SCHAEFER □ P 50 □ Q</td>
</tr>
<tr>
<td></td>
<td>00 - 20 - 00 - 12-30V</td>
</tr>
</tbody>
</table>

- Polycarbonate, crystal clear
- Polycarbonate, red
**P 50 Q**

Pane 50, square

### Characteristics

- **Fixing**: snap fixing
- **Faceplate thickness**: 1.5 mm ... 3 mm
- **Connection technology**
  - AWG 26 – 28
  - AWG 28 (ribbon cable)
- **Recall light**
  - LED RGB
  - Entire surface illumination
  - Colour selectable via jumper
  - Separate area illumination
  - Colour selectable via jumper
- **Buzzer overload**
  - U = 12 V ... 30 V DC
  - I = 40 mA
- **Film**
  - Positive or negative, colour
  - Entire surface illumination/
  - Separate area illumination
  - E.g.: Emergency call released/
  - Emergency call acknowledged

### Dimensions

- **PITCH**
  - 56 75

### Wiring diagram

- **Jumper**
  - Red
  - Blue
  - Green
  - Yellow
  - Magenta
  - Cyan
  - White

### Cutout

- **Space for cables**

---

*SCHAEFER*
PLATES P 50 R

Pane 50, round

round, 44.3 mm
film (positive, negative, colour film)
height of characters 18 mm
height of symbols 27 mm

Colour values for colour films
• RAL shade codes
• as per sample

Especial quick changing of the films by removable front part.

Material code II. 1 / 4

PLATE MATERIAL CODE

<table>
<thead>
<tr>
<th>Code</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>polycarbonate, crystal clear</td>
</tr>
<tr>
<td>21</td>
<td>polycarbonate, red</td>
</tr>
</tbody>
</table>

TYPE LABEL P 50 (example)

SCHAEFER P 50 R
00 - 21 - 00 - 12-30V
# P 50 R

## Pane 50, round

### Characteristics

<table>
<thead>
<tr>
<th>Fixing</th>
<th>snap fixing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faceplate thickness</td>
<td>1.5 mm ... 3 mm</td>
</tr>
<tr>
<td>Connection technology</td>
<td>AWG 26 - 28, 0.1 mm², AWG 28 (ribbon cable)</td>
</tr>
<tr>
<td>Recall light</td>
<td>LED RGB</td>
</tr>
<tr>
<td></td>
<td>entire surface illumination</td>
</tr>
<tr>
<td></td>
<td>colour selectable via jumper</td>
</tr>
<tr>
<td></td>
<td>separate area illumination</td>
</tr>
<tr>
<td></td>
<td>colour selectable via jumper</td>
</tr>
<tr>
<td>U option</td>
<td>12 V ... 30 V DC</td>
</tr>
<tr>
<td>I option</td>
<td>40 mA</td>
</tr>
</tbody>
</table>

### Buzzer overload

| U option     | 12 V ... 30 V DC |
| I option     | 10 mA |

### Film

positive or negative, colour
entire surface illumination/
separate area illumination
 e. g. emergency call released/
emergency call acknowledged

### Dimensions

<table>
<thead>
<tr>
<th>PITCH</th>
<th>56 75</th>
</tr>
</thead>
</table>

### Cutout

![Cutout Diagram]

### Wiring diagram

![Wiring Diagram]

---

**Jumper**

- red
- blue
- green
- yellow
- magenta
- cyan
- white

**Rear view**

ideal for use with landing fixture SIMPLE 65

---

**Marking**

- film
- film

---

**Update - Luminous fields and indicators**

**REVISION**

2012-04
MA 6434
Micro Indicator 6434

Characteristics

- Fixing: snap fixing
- Faceplate thickness: 1.5 mm ... 2 mm
- Connection technology: AWG 26 - 28, 0.1 mm² ... 1 mm²

- Pane: crystal-clear LED
- Film: positive, negative, colour
- Recall light: entire surface illumination, separate area illumination

Illumination:
- entire surface illumination
- separate area illumination with partition
- without illumination

Dimensions

- PITCH: 42 75
- Cutout dimensions: 32.5 +0.05 0 62.5 +0.05 0
- Space for cables: 24.5

Wiring diagram

Cutout

Integration lettering fields/illuminated fields II. 2. 15

Marking

Films
MA 6434 LC
Micro Indicator 6434 Low Current

Characteristics

Fixing
Faceplate thickness: 1.5 mm ... 2 mm
Connection technology: AWG 26 - 28

Pane
Film: crystal-clear, negative, colour

Recall light
option: separate area illumination, entire surface illumination

Compliance

U = 3 V ... 30 V DC smoothed
I1, I2 = 2.5 mA
I total = 5 mA

Dimensions

Cutout

Wiring diagram

Marking
**LF 4824 LED**

**Illuminated Field 4824 LED**

**Characteristics**

- **Fixing**
  - welding studs M3 x 12 (faceplate fixing)

- **Faceplate thickness**
  - 2 mm or 3 mm

- **Connection technology**
  - AWG
  - 26 - 28
  - 0.1 mm² ... 1 mm²

- **Pane**
  - 2 mm or 3 mm
  - crystal-clear LED
  - red LED
  - green LED

- **Film**
  - positive, negative, colour

- **Recall light**
  - LED
  - recall light active

**Dimensions**

- **Pitch**
  - 28
  - 75

**Cutout**

- **Option: buzzer**
  - U = 12 V
  - I = approx. 10 mA

**Illumination**

- entire surface illumination
- separate area illumination with partition
- without illumination

**Compliance**

- option: combination with pane

**Option**

- U = 30 V
- U = 12 V
- I, I2 = approx. 25 mA
- I total = approx. 50 mA

- LF 4824 LED

- Film
  - positive, negative, colour

- Recall light
  - recall light active

- Marking
  - welding stud
  - M3 x 12

Please order fixing accessories separately.

**Integration lettering fields/illuminated fields II. 2. 15**

**Wiring diagram**

**Cutout**

- LF ESG
- option pane ESG, pane wg
- II. 2. 31 - II. 2. 32

**Marking**

- Film
**LF 4848 LED**

**Illuminated Field 4848 LED**

---

**Characteristics**

**Fixing**
- Welding studs M3 x 12 (faceplate fixing)

**Faceplate thickness**
- 2 mm or 3 mm

**Connection technology**
- AWG 26 - 28
- 0.1 mm² ... 1 mm²

**Pane**
- 2 mm or 3 mm
- Crystal-clear, red, green

**Film**
- Positive, negative, colour

**Recall light**
- LED
- Red, green, yellow, white

**Option**
- U = 30 V
- I₁, I₂ = approx. 50 mA
- I total = approx. 100 mA

**Illumination**
- Entire surface illumination
- Separate area illumination with partition
- Without illumination

**Compliance**
- Option: combination with pane
- F 4848 ESG
- F 4848 wg

---

**Dimensions**

**Pitch**
- 56 mm
- 75 mm

---

**Wiring diagram**

**Cutout**

---

- Fixing accessories separately.
- LF ESG option pane ESG, pane wg II. 2.31 - II. 2.32
- Integration lettering fields / illuminated fields II. 2.15

---

**Marking**

---

**Please order fixing accessories separately.**
**LF 4848 bicolour**

Illuminated Field 4848 bicolour

- **Recall light active**
- **Fixing**
- **Faceplate thickness**
- **Connection technology**
- **Pane**
- **Film**
- **Recall light option**
- **Further colours available on demand**
- **Illumination**
- **Compliance**

**Dimensions**

**Cutout**

**Wiring diagram**

- **Recall light active**
- **Marking**
- **PITCH**
  - 56
  - 75
- **Dimensions**
- **Cutout**
- **Wiring diagram**

- **Please order fixing accessories separately.**
- **LF ESG** option pane ESG, pane wg II. 2.31 – II. 2.32
- **Integration lettering fields/illuminated fields** II. 2.15

**Features**

- **Fixing**
  - Welding studs M3 x 12 (faceplate fixing)
  - 2 mm or 3 mm
  - AWG 26 – 28
  - 0.1 mm² … 1 mm²
- **Pane**
  - 2 mm or 3 mm
  - Crystal-clear
- **Film**
  - LED: Positive, negative, colour
- **Recall light option**
  - U = 30 V
  - U = 12 V
  - I₁ = approx. 100 mA
  - I₂ = approx. 100 mA
- **Illumination**
  - Entire surface illumination
- **Compliance**
  - Option: combination with pane
  - F 4848 ESG
  - F 4848 wg

**Integration**

- **LF 4848 bicolour**
- **Dimensions**
- **Cutout**
- **Wiring diagram**

**Notes**

- Fixing welding studs M3 x 12 (faceplate fixing)
- Faceplate thickness 2 mm or 3 mm
- Connection technology AWG 0.1 mm² … 1 mm²
- Pane 2 mm or 3 mm crystal-clear
- Film LED positive, negative, colour
- Recall light option U = 30 V U = 12 V I₁ = approx. 100 mA I₂ = approx. 100 mA
- Illumination entire surface illumination
- Compliance option: combination with pane
- F 4848 ESG
- F 4848 wg

**Integration lettering fields/illuminated fields** II. 2.15

**Please order fixing accessories separately.**

- **LF ESG** option pane ESG, pane wg II. 2.31 – II. 2.32
**LF 7224 LED**

**Illuminated Field 7224 LED**

### Characteristics

- **Fixing**
  - welding studs M3 x 12 (faceplate fixing)
- **Faceplate thickness**
  - 2 mm or 3 mm
- **Connection technology**
  - AWG 26 - 28
  - 0.1 mm² ... 1 mm²
- **Pane**
  - 2 mm or 3 mm
  - crystal-clear
  - red
  - green
- **Film**
  - positive, negative, colour

### Recall light

- **U** = 30 V
- **option**
  - **U** = 12 V
  - **I1, I2** = approx. 25 mA
  - **I total** = approx. 50 mA
- **Illumination**
  - entire surface illumination
  - separate area illumination with partition
  - without illumination
- **Compliance**
  - option: combination with pane
  - F 7224 ESG
  - F 7224 wg

### Dimensions

- **Rear view**
- **Wiring diagram**
- **Cutout**

---

**Please order fixing accessories separately.**

- **LF ESG**
  - option pane ESG, pane wg
  - II. 2.31 - II. 2.32
- **Integration lettering fields/illuminated fields**
  - II. 2.15
**LF 9924 LED**

**Illuminated Field 9924 LED**

**Characteristics**

- **Fixing**: welding studs M3 x 12 (faceplate fixing)
- **Faceplate thickness**: 2 mm or 3 mm
- **Connection technology**:
  - AWG 26 – 28
  - 0.1 mm² – 1 mm²
- **Pane**: 2 mm or 3 mm
  - crystal-clear red
  - LED red
  - LED green
  - positive, negative, colour
- **Film**:
  - LED red
  - LED green
  - positive, negative, colour
- **Recall light**:
  - U = 30 V
  - option U = 12 V
  - I1, I2 = approx. 25 mA
  - I total = approx. 50 mA
- **Option: buzzer**:
  - U = 12 V – 30 V
  - I = approx. 10 mA
- **Illumination**:
  - entire surface illumination
  - separate area illumination with partition
  - without illumination
- **Compliance**: option: combination with pane
  - F 9924 ESG
  - F 9924 wg

**Dimensions**

- **Cutout**

Please order fixing accessories separately.

- LF ESG, pane ESG
- LF wg, pane wg

Integration lettering fields/illuminated fields II. 2. 15
LF 9924 TRIPLE
Illuminated Field 9924, triple indicator

Characteristics

Fixing
welding studs M3 x 12 (faceplate fixing)

Faceplate thickness
2 mm or 3 mm

Connection technology
AWG 26 – 28 0.1 mm² – 1 mm²

Pane
2 mm or 3 mm, crystal-clear

Film
negative, colour

Recall light pictograms
LED

Recall light overload
LOW CURRENT

Buzzer
LED

U = 12 V – 30 V
I = 20 mA

Illumination
separate area illumination with partitions

Compliance
option: combination with pane

F 9924 ESG  F 9924 wg

Dimensions

Cutout

Wiring diagram

Please order fixing accessories separately.

Integration lettering fields/illuminated fields II. 2.15

2.13
**LF 9948 LED**

**Illuminated Field 9948 LED**

**Characteristics**

- **Fixing**: welding studs M3 x 12 (faceplate fixing)
- **Faceplate thickness**: 2 mm or 3 mm
- **Connection technology**:
  - AWG: 26 – 28
  - 0.1 mm² ... 1 mm²
- **Pane**: 2 mm or 3 mm crystal-clear
  - LED: red, green, positive, negative, colour
- **Film**: (option: buzzer)
  - U = 30 V
  - I1, I2 = approx. 50 mA
  - I total = approx. 100 mA
- **Option: buzzer**: U = 12 V ... 30 V
  - I = approx. 10 mA
- **Illumination**:
  - entire surface illumination
  - separate area illumination with partition
  - without illumination
- **Compliance**: option: combination with pane
  - F 9948 ESG
  - F 9948 wg

**Dimensions**

- Rear view
- Welding stud M3 x 12
- Dimensions
- Cutout

**Notes**

- Please order fixing accessories separately.

**Marking**

- (option: buzzer)

**Wiring diagram**

- L, C, C2, R2

**Revision**

- Update - Luminous fields and indicators / 2012-04
- SCHAEFER
INTEGRATION

Lettering Fields/Illuminated Fields

Example lettering field Style 28 = BF 4824
Example illuminated field Style 28 = LF 4824

Example lettering field Style 28 = BF 7224
Example illuminated field Style 28 = LF 7224

Example lettering field Style 28 = BF 9924
Example illuminated field Style 28 = LF 9924

Example lettering field Style 42 = BF 6434
Example illuminated field Style 42 = MA 6434

Example lettering field Style 56 = BF 4848
Example illuminated field Style 56 = LF 4848

Example lettering field Style 56 = BF 4848
Example illuminated field Style 56 = LF 4848

GARAGE ETAGE 1
EXIT Zahnarzt
LADEZONE

Dr. Müller
MA 9999
Multi Indicator 9999

Characteristics

Fixing
welding studs M3 x 12 (faceplate fixing)

Faceplate thickness
2 mm or 3 mm

Connection technology
AWG 2, 0.1 mm² ... 1 mm²

Pane
2 mm or 3 mm, crystal-clear

Film
positive, negative, colour

Recall light overload

LED

Option

U = 30 V

I = 50 mA

Option: buzzer

U = 12 V ... 30 V

I = approx. 10 mA

Illumination
- separate field illumination with partitions
- without illumination

Compliance
- option: combination with pane

F 9999 ESG

F 9999 wg

Dimensions

Rear view

Wiring diagram

Cutout

Please order fixing accessories separately.

Revision

MA 9999

Update - Luminous fields and indicators / 2012-04

Please order fixing accessories separately.

LF ESG

option pane ESG, pane wg

II 2.31 - II 2.32

Please order fixing accessories separately.
**MA 9999 TRIPLE**

*Multi Indicator 9999, triple indicator*

---

**Characteristics**

- **Fixing**
  - 2 mm or 3 mm

- **Faceplate thickness**
  - 2 mm or 3 mm, crystal-clear

- **Connection technology**
  - AWG 26 - 28
  - 0.1 mm² - 1 mm²

- **Pane**

- **Film**
  - positive, negative, colour
  - negative, colour

- **Recall light pictograms**
  - LED

- **Recall light overload**
  - LED

- **Buzzer**
  - U = 12 V ... 30 V
  - I = 20 mA

- **Illumination**

- **Compliance**
  - option: combination with pane

---

**Dimensions**

- **Dimensions**
  - 143 mm x 99 mm

- **Cutout**
  - 115 mm x 91 mm

---

**Wiring diagram**

- **Rear view**

---

**Please order fixing accessories separately.**

- **Marking**
  - LF ESG
  - option pane ESG, pane wg

---

**Design**

- **Drawing**
  - Customer's logo

---

**Update / 2013-11**

---

**Revision b**

---

*F 9999 ESG  F 9999 wg*
MFD 99 VIII
Multifunctional Display 99 VIII

Description
MFD 99 VIII is a multifunctional display. It can be used as full size lettering field/luminous field with illumination of the entire surface. Alternatively, various displays can be integrated. The display is placed in the top field of MFD 99 VIII. In the field in the middle, where the emergency light is located, logos and texts can be presented. In the bottom field, pictograms according to EN 81-70 as well as six further symbols can be presented. The integrated buzzer can be controlled in parallel with the overload indicator.

Fixing
snap fixing or screw fixing

Faceplate thickness
MFD 99 VIII snap fixing: 1.5 mm, 2 mm, 3 mm
MFD 99 VIII screw fixing: 2 mm, 3 mm

Connection technology
$0.1 \text{ mm}^2 \ldots 1.5 \text{ mm}^2$

Pane
option security glass (MFD 99 VIII ESG screw fixing)

Film
positive, negative, colour

Recall light symbols
$\text{LED}$

Recall light emergency light
$\text{LED}$

Recall light pictograms
$\text{LED}$

Buzzer overload
$U = 12 \text{ V} \ldots 30 \text{ V DC}$
$I = \text{approx. } 10 \text{ mA}$

Compliance
MFD 99 VIII snap fixing/screw fixing
MFD 99 VIII wg screw fixing (water protected)
MFD 99 VIII ESG screw fixing (vandal-resistant)
MFD 99 VIII

Views

Front view

MFD 99 VIII snap fixing, frame on faceplate

MFD 99 VIII screw fixing, flush with faceplate

Rear view

MFD 99 VIII snap fixing, frame on faceplate
(variant with Auxiliary Module LED 99)

MFD 99 VIII screw fixing, flush with faceplate
(variant with display DMD 35 SP and Connector)
**Dimensions**

- **X** = depth
- **Snap fixing**

  - **DMD 30 SP H2/H3**: 38 mm
  - **DMD 35 SP H2/H3**: 38 mm
  - **LCD 128**: 41.5 mm
  - **Auxiliary module LED 99**: 31.5 mm
  - **Encoder**: 34.5 mm
  - **Connector**: 34.5 mm
  - **Pulse converter**: 36.5 mm

Please note: Different installation depth measures depending on the actual display type and accessories.

**Cutout**

- **X = depth**
  - **DMD 30 SP H2/H3**: 38 mm
  - **DMD 35 SP H2/H3**: 38 mm
  - **LCD 128**: 41.5 mm
  - **Auxiliary module LED 99**: 31.5 mm
  - **Encoder**: 34.5 mm
  - **Connector**: 34.5 mm
  - **Pulse converter**: 36.5 mm

Please note: Different installation depth measures depending on the actual display type and accessories.

Please order fixing accessories separately.

**Please note:** Different installation depth measures depending on the actual display type and accessories.
The drawing illustrates the standard version of MFD 99 VIII with screw fixing with display type DMD 30 SP H2.

The variants MFD 99 VIII wg (water-protected) and MFD 99 VIII ESG (vandal-resistant) have a slightly different structure and are available on demand.


<table>
<thead>
<tr>
<th>X = depth</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DMD 30 SP H2/H3</td>
<td>39,5 mm</td>
</tr>
<tr>
<td>DMD 35 SP H2/H3</td>
<td>39,5 mm</td>
</tr>
<tr>
<td>LCD 128</td>
<td>43 mm</td>
</tr>
<tr>
<td>Auxiliary module LED 99</td>
<td>33 mm</td>
</tr>
<tr>
<td>Encoder</td>
<td>36 mm</td>
</tr>
<tr>
<td>Connector</td>
<td>36 mm</td>
</tr>
<tr>
<td>Pulse converter</td>
<td>38 mm</td>
</tr>
</tbody>
</table>

Please order fixing accessories separately.
MFD 99 VIII

Variants

Display (floor indicator)
- DMD 30 SP H2/H3 (two-digit/three-digit)
- DMD 35 SP H2/H3 (two-digit/three-digit)
- LCD 128/TFT
- Auxiliary module LED 99 (if no display is integrated or if MFD 99 VIII is employed as full-size luminous field with illumination of the entire surface)

Lettering field/emergency light
- company logo
- year of construction
- number of persons/passengers
- capacity information
- serial number
- CE marking
- customized information

Individually configurable field with additional emergency light function. Film: positive, negative, colour

Symbols (one row/two rows)
- fire emergency
- overload
- out of order
- special ride
- door open
- ...

The symbols can be arranged in any order. Customized symbols are available on demand. Film: negative coloured

Pictograms
- emergency call transmitted
- emergency call accepted

At their standard position, the two emergency call pictograms are configured for LOW CURRENT power supply (3 V...30 V DC/2.5 mA).

Once their position is shifted or if MFD 99 VIII is employed as full-size luminous field, the supply voltage must be set to 12 V...30 V DC/20 mA by means of a DIP switch.
# MFD 99 VIII

## Variants

<table>
<thead>
<tr>
<th>Symbols / Pictograms Single-Row</th>
<th>Symbols / Pictograms Double-Row</th>
<th>Without Symbols / Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image 1" /></td>
<td><img src="image2.png" alt="Image 2" /></td>
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</tr>
</tbody>
</table>
The auxiliary module LED 99 is needed, when no display is integrated respectively if MFD 99 VIII is employed as full-size luminous field. The module is installed instead of the display.

**Fixing**
- clip fixing

**Connection technology**
- 0.1 mm² ... 1.5 mm²

**Recall light**
- LED
- U = 12 V ... 30 V DC
- I = 80 mA
ACCESSORIES MFD 99 VIII

Summary accessories

Encoder
Page II. 1.60

Connector
Page II. 1.61

Pulse converter
Page II. 1.62

Auxiliary Module LED 99
Page II. 2.21/3

DMD 30 SP H2
Page II. 1.8 - 1.9

DMD 30 SP H3
Page II. 1.6 - 1.7

DMD 35 SP H2
Page II. 1.18 - 1.19

DMD 35 SP H3
Page II. 1.20 - 1.21

LCD 128
Page II. 1.33/1 - 1.33/4

TFT
on request

Module IF 99
on request

Wire
OSI 70 / OSI 70-H
Out of Service Indicator

Characteristics
- Fixing: welding studs M3 x 8 (faceplate fixing)
- Housing: st. steel brushed
- Faceplate thickness: 2 mm or 3 mm
- Connection technology: 2 x 1.0 mm² PVC control cable (200 mm)
- Pane: 8 mm, polycarbonate, grey
- Recall light: LED
- Further colours and symbols available on demand
- U = 24 V AC/DC (±10%)
- I = 140 mA
- Option: buzzer
- U = 12 V ... 30 V DC
- I = approx. 25 mA
- Illumination: separate area illumination

Compliance
- EN 81-71
- EN 81-72
- EN 81-73

Dimensions
- Cutout: 81.5 ±0.1
- Wiring diagram
- Cutout

Please order fixing accessories separately.
DAW 70 / DAW 70-H
Direction Arrow

Characteristics
- Fixing: welding studs M3 x 8 (faceplate fixing)
- Housing: st. steel brushed
- Faceplate thickness: 2 mm or 3 mm
- Connection technology: 2 x 1.0 mm² PVC control cable (200 mm)
- Pane: 8 mm, polycarbonate, grey
- Recall light: LED
  - Further colours and symbols available on demand
  - U = 24 V AC/DC (±10%)
  - I = 170 mA
- Option: buzzer
  - U = 12 V ... 30 V DC
  - I = approx. 25 mA
- Illumination: separate area illumination

Compliance
- EN 81-70
- EN 81-71
- EN 81-72

Dimensions
- Cutout:
  - 125.5 mm
  - 81.5 mm
  - 70 mm
  - 50 mm
  - Space for cables

Wiring diagram
- L1, LC
- Option

Please order fixing accessories separately.

Option
- DAW 70 standard version
- DAW 70-H turned by 90°
**LP 15 W**

Illuminated Arrow 15 W

---

### Characteristics

- **Fixing**
  - welding studs M3 x 8 (faceplate fixing)

- **Faceplate thickness**
  - 1.5 mm ... 2 mm

- **Connection technology**
  - 0.1 mm² ... 1 mm²

- **Illuminated arrow**
  - opal

- **Recall light**
  - LED

- **U** = 30 V AC/DC

- **I** = 20 mA per arrow

- **Illumination**
  - arrow illumination

---

### Dimensions

Rear view

- Wiring diagram

- Fixing welding studs M3 x 8 (faceplate fixing)

- Faceplate thickness 1.5 mm ... 2 mm

- Connection technology 0.1 mm² ... 1 mm²

- Illuminated arrow opal

- Recall light LED

- U = 30 V AC/DC

- I = 20 mA per arrow

- Illumination arrow illumination

---

Please order fixing accessories separately.

---

**Cutout**

- Wiring diagram

- Fixing welding stud M3 x 8

- Faceplate thickness 1.5 mm ... 2 mm

- Connection technology 0.1 mm² ... 1 mm²

- Illuminated arrow opal

- Recall light LED

- U = 30 V AC/DC

- I = 20 mA per arrow

- Illumination arrow illumination

---

**Update - Luminous fields and indicators / 2012-04**

**REVISION a**

---

**SCHAEFER**

---

**II**

---

**2.24**
LP 4824 LED

4824 LED

Characteristics

Fixing
welding studs M3 x 12 (faceplate fixing)

Faceplate thickness
2 mm or 3 mm

Connection technology
AWG 26 – 28

0.1 mm² ... 1 mm²

Illuminated arrow
2 mm or 3 mm

opal LED
red LED
green LED

Recall light
U = 30 V
option U = 12 V

I1, I2 = approx. 25 mA
I total = approx. 50 mA

Illumination
arrow illumination

Compliance
option: combination with illuminated arrow

LP 4824 ESG    LP 4824 wg

Dimensions

Reorder - Luminous fields and indicators / 2012-04

Please order fixing accessories separately.

option: illuminated arrow ESG, illuminated arrow wg

Rear view

Please order fixing accessories separately.

option: illuminated arrow ESG, illuminated arrow wg

Agree with fixtures separately.

option: illuminated arrow ESG, illuminated arrow wg

Rear view

Wiring diagram

Cutout

Dimensions

LP 4824 LED
**LP 4848 LED**

**Illuminated Arrow 4848 LED**

**Characteristics**

- **Fixing**: welding studs M3 x 12 (faceplate fixing)
- **Faceplate thickness**: 2 mm or 3 mm
- **Connection technology**: AWG 26 - 28
  
  0.1 mm² ... 1 mm²

**Illuminated arrow**

- 2 mm or 3 mm
- **opal LED**
- **red LED**
- **green LED**
- **Recall light**
  
  - 2 mm or 3 mm
  - **LED**
  
  **Option**
  
  - U = 30 V
  - U = 12 V
  
  - I1, I2 = approx. 50 mA
  - I total = approx. 100 mA

**Illumination option**

- combination with illuminated arrow

**Compliance**

- **EN 60601-1**
- **EN 60601-1-2**
- **EN 60601-1-3**

**Dimensions**

- **Pitch**: 56 75

**Wiring diagram**

**Cutout**

- **welding stud M3 x 12**
- **Faceplate thickness 2 mm or 3 mm**
- **Connection technology  AWG 26 - 28**
- **0.1 mm² ... 1 mm²**

- **opal LED**
- **red LED**
- **green LED**
- **Recall light**
  
  - 2 mm or 3 mm
  - **LED**
  
  **Option**
  
  - U = 30 V
  - U = 12 V
  
  - I1, I2 = approx. 50 mA
  - I total = approx. 100 mA

**Illumination option**

- combination with illuminated arrow

**Compliance**

- **EN 60601-1**
- **EN 60601-1-2**
- **EN 60601-1-3**

**Dimensions**

- **Pitch**: 56 75
PP 4848 LED
Prism Arrow 4848 LED

Characteristics
- **Fixing**: welding studs M3 x 12 (faceplate fixing)
- **Faceplate thickness**: 2 mm or 3 mm
- **Connection technology**: AWG 26 – 28
  - 0.1 mm² ... 1 mm²
- **Illuminated arrow**: 2 mm or 3 mm
  - opal LED
  - red LED
  - green LED
- **Recall light**
  - U = 30 V
  - U = 12 V
  - I₁, I₂ = approx. 50 mA
  - I total = approx. 100 mA
- **Illumination Compliance**

Compliance
EN 81-70

Dimensions

Fixing accessories separately.

Wiring diagram

Cutout

Please order fixing accessories separately.
**EA 6644**

**EPSILON Arrow 6644**

**Characteristics**

**Fixing**
- welding studs M3 x 12 (faceplate fixing)

**Faceplate thickness**
- 3 mm, 1.5 mm, 2 mm

**Connection technology**
- AWG 26 - 28
- 0.1 mm² ... 1 mm²

**Illuminated arrow**
- crystal-clear LED
- red LED
- green LED

**Recall light**
- option
- U = 30 V
- U = 12 V
- I1, I2 = approx. 50 mA
- I total = approx. 100 mA

**Illumination**
- arrow illumination

**Compliance**
- EN 61 529

**Dimensions**

**Wiring diagram**

**Cutout**

---

Please order fixing accessories separately.

---

Please order fixing accessories separately.

---

Please order fixing accessories separately.

---

Please order fixing accessories separately.
Illuminated Arrow 8080, raised

**Characteristics**

- **Fixing**
  - welding studs M3 x 8 (faceplate fixing)
- **Faceplate thickness**
  - 1.5 mm ... 10 mm
- **Connection technology**
  - 0.1 mm² ... 1 mm²
- **Illuminated arrow, raised**
  - crystal-clear top
- **Recall light**
  - LED
- **Option**
  - U = 12 V ... 30 V AC/DC
  - U = 48 V AC/DC
  - I = 12 V max. 135 mA
  - 24 V max. 65 mA
- **Compliance**
  - EN
  - B1-70

**Dimensions**

- **Rear view**
- **Wiring diagram**
  - +
  - -
  - Wiring diagram
- **Cutout**
  - 80.1 mm

**Please order fixing accessories separately.**

---

**Note:**

- Update - LP 8080 / 01/2016
- SCHAEFER
LP 8080
Illuminated Arrow 8080, flush

Characteristics
Fixing
welding studs M3 x 8 (faceplate fixing)
Faceplate thickness
2 mm or 3 mm
Connection technology
0.1 mm² ... 1 mm²
Illuminated arrow, flush
opal
Recall light
LED
option
U = 12 V ... 30 V AC/DC
U = 48 V AC/DC
I = 12 V max. 135 mA
24 V max. 65 mA
Illumination
arrow illumination
Compliance
EN
81-70

Dimensions

Wiring diagram

Cutout

Please order fixing accessories separately.
ILLUMINATED FIELDS with safety glass (ESG)

Example
pane F 9948 ESG crystal-clear combined with plastic plate red and LF 9948 LED

Dimensions
Example: LF 9948 ESG

Cutout

Characteristics
Panels
F 4824 ESG, F 4848 ESG, F 7224 ESG, F 9924 ESG, F 9948 ESG, F 9999 ESG, LP 4824 ESG, LP 4848 ESG, MFD 99 ESG screw fixing

Fixing
welding studs (faceplate fixing)

Faceplate thickness
2 mm or 3 mm

Pane
ESG crystal-clear/plate crystal-clear LED
ESG crystal-clear/plate red LED
ESG crystal-clear/plate green LED

Film
positive, negative, colour

Illumination
- entire surface illumination
- separate area illumination with partition
- without illumination

Compliance
EN 81-71

Due to different dimensions and fixings it is not possible to change standard panes to panes with safety glass (ESG).

Please order fixing accessories separately.
ILLUMINATED FIELDS with water-protection (wg)

Example: pane F 9948 wg red combined with LF 9948 LED

Characteristics

<table>
<thead>
<tr>
<th>Panes</th>
<th>F 4824 wg, F 4848 wg, F 7224 wg, F 9924 wg, F 9948 wg, F 9999 wg, LP 4824 wg, LP 4848 wg, MFD 99 wg screw fixing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixing</td>
<td>welding studs (faceplate fixing)</td>
</tr>
<tr>
<td>Faceplate thickness</td>
<td>2 mm or 3 mm</td>
</tr>
<tr>
<td>Pane wg</td>
<td>crystal-clear, LED red, LED positive, negative, colour</td>
</tr>
<tr>
<td>Film</td>
<td></td>
</tr>
<tr>
<td>Illumination</td>
<td>- entire surface illumination - separate area illumination with partition - without illumination</td>
</tr>
</tbody>
</table>

Compliance

Due to different dimensions and fixings it is not possible to change standard panes to panes with water-protection (wg).

Dimensions

Example: LF 9948 wg

Cutout

Please order fixing accessories separately.
MARKING

film positive, negative, colour

Option: Other fonts as well as logos possible.

Film 4824

Height of characters/symbols identical with:
LF 4824 LED, LF 7224 LED, LF 9924 LED
Font: Swiss 721 MdBT

Film 4848

Height of characters/symbols identical with:
LF 4848 LED, LF 9948 LED
Font: Swiss 721 MdBT

Film 6434

Font: Swiss 721 MdBT

Film 9999

The height of the characters depends on the number of characters within the available marking space.

Height of the characters depends on the number of characters within the available marking space.

Option: Other fonts as well as logos possible.

For being able to create a logo we ideally need your data as vector graphics file (*.cdr) or as CAD file (*.dxf/*.dwg) as well as precise information regarding the colour(s) according to the RAL-Classic system.

Capacity information
Font: Zurich LtCnBT
OVERLOAD
Font: Swiss 721 MdBT

Film 6434

Font: Zurich LtCnBT
MARKING

Symbols according to DIN 15325:

004

005

006

007

008

Further available symbols:

010

011

012

013

014

015

016

020

021

022

024

025

Updated list available on demand.
<table>
<thead>
<tr>
<th>TYPE</th>
<th>PANE COLOUR</th>
<th>LED (U in V)</th>
<th>LED COLOUR</th>
<th>MARKING</th>
<th>ORIENTATION</th>
<th>NORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 50 Q</td>
<td>crystal-clear red</td>
<td>12 V ... 30 V DC option 30 V ... 48 V DC</td>
<td>colour selectable via jumper</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
</tr>
<tr>
<td>P 50 R</td>
<td>crystal-clear red</td>
<td>12 V ... 30 V DC option 30 V ... 48 V DC</td>
<td>colour selectable via jumper</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
</tr>
</tbody>
</table>

Order example: P 50 Q, plate: crystal-clear, LED: RGB, film: colour

<table>
<thead>
<tr>
<th>TYPE</th>
<th>PANE COLOUR</th>
<th>LED (U in V)</th>
<th>LED COLOUR</th>
<th>MARKING</th>
<th>ORIENTATION</th>
<th>NORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 6434</td>
<td>crystal-clear red green</td>
<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
</tr>
<tr>
<td>MA 6434 LC</td>
<td>crystal-clear</td>
<td>3 V ... 30 V DC smoothed</td>
<td></td>
<td>LCI film</td>
<td>negative, colour</td>
<td></td>
</tr>
</tbody>
</table>

Order example: MA 6434, pane: crystal-clear, LED: white, film: positive, text: „INFORMATION“

<table>
<thead>
<tr>
<th>TYPE</th>
<th>PANE COLOUR</th>
<th>LED (U in V)</th>
<th>LED COLOUR</th>
<th>MARKING</th>
<th>ORIENTATION</th>
<th>NORM</th>
</tr>
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<tbody>
<tr>
<td>LF 4824 LED</td>
<td>crystal-clear red green</td>
<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
</tr>
<tr>
<td>LF 4848 LED</td>
<td>crystal-clear red green</td>
<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
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<tr>
<td>LF 7224 LED</td>
<td>crystal-clear red green</td>
<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
</tr>
<tr>
<td>LF 9924 LED</td>
<td>crystal-clear red green</td>
<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
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<tr>
<td>LF 9948 LED</td>
<td>crystal-clear red</td>
<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
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<td>LF 9948 bicolour</td>
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<td>30 V option 12 V</td>
<td>colour selectable</td>
<td>LCI film</td>
<td>positive, negative colour</td>
<td></td>
</tr>
<tr>
<td>LF 9924 TRIPLE LOW CURRENT</td>
<td>crystal-clear</td>
<td>3 V ... 30 V DC smoothed</td>
<td></td>
<td>LCI film</td>
<td>negative, colour</td>
<td></td>
</tr>
</tbody>
</table>

Order example: LF 7224 LED, pane: crystal-clear, LED: white, film: positive, text: „FIRST FLOOR“

For pictogram survey see prefix
<table>
<thead>
<tr>
<th>TYPE</th>
<th>PANE COLOUR</th>
<th>LED (U in V)</th>
<th>LED COLOUR</th>
<th>MARKING</th>
<th>ORIENTATION</th>
<th>NORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 9999</td>
<td>crystal-clear</td>
<td>12 V option 30 V</td>
<td>red, yellow, green, blue</td>
<td>film</td>
<td>negative colour</td>
<td>EN</td>
</tr>
<tr>
<td>MA 9999 TRIPLE</td>
<td>crystal-clear</td>
<td>3 V ... 30 V DC smoothed 12 V ... 30 V</td>
<td>film</td>
<td>negative, colour</td>
<td>EN</td>
<td></td>
</tr>
<tr>
<td>MFD 99 VIII</td>
<td>grey</td>
<td>symbols 3 V ... 30 V DC pictograms LOW CURRENT emergency light 12 V ... 30 V DC</td>
<td>film</td>
<td>negative colour</td>
<td>EN</td>
<td></td>
</tr>
<tr>
<td>MFD 99 VIII screw fixing</td>
<td>grey</td>
<td>symbols 3 V ... 30 V DC pictograms LOW CURRENT emergency light 12 V ... 30 V DC</td>
<td>film</td>
<td>negative colour</td>
<td>EN</td>
<td></td>
</tr>
<tr>
<td>MFD 99 VIII wg screw fixing (water protected)</td>
<td>grey</td>
<td>symbols 3 V ... 30 V DC pictograms LOW CURRENT emergency light 12 V ... 30 V DC</td>
<td>film</td>
<td>negative colour</td>
<td>EN</td>
<td></td>
</tr>
<tr>
<td>MFD 99 VIII ESG screw fixing (vandal-resistant)</td>
<td>grey</td>
<td>symbols 3 V ... 30 V DC pictograms LOW CURRENT emergency light 12 V ... 30 V DC</td>
<td>film</td>
<td>negative colour</td>
<td>EN</td>
<td></td>
</tr>
</tbody>
</table>

Order example: MA 9999 TRIPLE, pane: crystal-clear, LED: white, red, film: colour, negative, colour

Order example: MFD 99 VIII, snap fixing, display: DMD 35 SP H3, pane: grey, LED: white, film symbols: positive, negative, colour, film lettering field: colour
## Summary: Luminous fields and indicators

### LED Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Pane Colour</th>
<th>LED (V in V)</th>
<th>LED Colour</th>
<th>Marking</th>
<th>Orientation</th>
<th>Norm</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSI 70</td>
<td>grey</td>
<td>24 V AC/DC (±10%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSI 70-H</td>
<td>grey</td>
<td>24 V AC/DC (±10%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAW 70</td>
<td>grey</td>
<td>24 V AC/DC (±10%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAW 70-H</td>
<td>grey</td>
<td>24 V AC/DC (±10%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Order example:** OSI 70, pane: grey, LED: white, red, orientation: 0° standard

### Other LED Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Pane Colour</th>
<th>LED (V in V)</th>
<th>LED Colour</th>
<th>Marking</th>
<th>Orientation</th>
<th>Norm</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP 15 W</td>
<td>opal</td>
<td>30 V AC/DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Order example:** LP 15 W, illuminated arrow: opal, LED: red, orientation: 0° standard

### Additional LED Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Pane Colour</th>
<th>LED (V in V)</th>
<th>LED Colour</th>
<th>Marking</th>
<th>Orientation</th>
<th>Norm</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP 4824</td>
<td>opal</td>
<td>30 V AC/DC</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>LP 4848</td>
<td>red, green</td>
<td>30 V option 12 V</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PP 4848</td>
<td>crystal-clear red, green</td>
<td>30 V option 12 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EA 6644</td>
<td>crystal-clear red, green</td>
<td>30 V option 12 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Order example:** LP 4824, illuminated arrow: opal, LED: green, orientation: 0° standard

For pictogram survey see prefix.
### Summary - Luminous Fields and Indicators

#### Order example: LP 8080 raised, crystal-clear top, LED: red

<table>
<thead>
<tr>
<th>Type</th>
<th>Pane Colour</th>
<th>LED (U in V)</th>
<th>LED Colour</th>
<th>Marking</th>
<th>Orientation</th>
<th>Norm</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP 8080 raised</td>
<td>crystal-clear top</td>
<td>12 V ... 30 V AC/DC</td>
<td>Red</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>option 48 V AC/DC</td>
<td>Green</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LP 8080 flush</td>
<td>opal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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