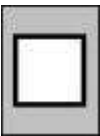

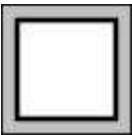

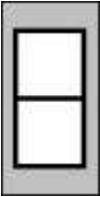

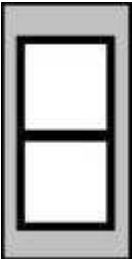





- Superflat LED pilot lights and pilot light modules (clusters)
- Very long service life (half life of 100'000 hours= 11 years)
- Easiest „click-in“ fixing by patent-protected click-in device for panel thicknesses of 1-4 mm
- Bright and even illumination, wide visibility angle
- Several available colours for the ill. screens, including bi-colour
- Service voltages from 12 V DC to 230 VAC
- Frame made of high impact strength „DELTRIN“
- Prime quality, assembled in Switzerland. Each and every unit undergoes a function check before leaving the factory

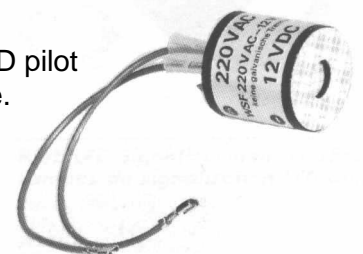
| | Art.-No. | Dimensions (mm) | | Panel cut-out | Mounting depth | Available colours for the ill. screens | Standard voltages | Connect. | |
|------------------------------|---|-----------------|-------------------------------|------------------|----------------|--|---|---------------------|---|
| | | Front-frame | Illumin. screen(s) | | | | | | |
| LED-pilot lights |  WSF10-00. ^{a)} R.. ^{b)} dc | 18x24 | 10x10 | 16x22 +/- 0,1 | 12,9 | ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange ■ 6 = blue □ 7 = white □ 8 = red/green [†] □ 9 = red/yellow [†] †bicolor | 12 V DC and 24 V DC – other service voltages upon request | faston 2,8 x 0,5 mm |  |
| |  WSF15-00. ^{a)} R.. ^{b)} dc | 24x24 | 15x15 | 22x22 +/- 0,1 | 14,9 | ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange | | |  |
| Twin LED-pilot lights |  WSF10-0.. ^{a)} R.. ^{b)} dc | 18x36 | 2 illumin. screens 10x10mm | 16x34 +/- 0,1 | 12,9 | ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange ■ 6 = blue □ 7 = white □ 8 = red/green [†] □ 9 = red/yellow [†] †bicolor | | |  |
| |  WSF15-0.. ^{a)} R.. ^{b)} dc | 24x48 | 2 illumin. screens 15x15mm | 22x46 +/- 0,1 | 14,9 | ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange | | |  |

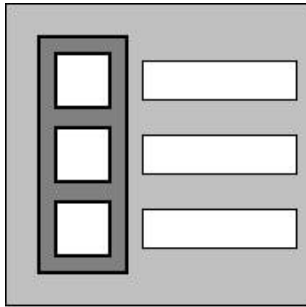
^{a)}: Colour of the ill. screen(s) according to the codes in the appropriate column

^{b)}: Voltage „12“ or „24“

Ordering example: WSF10-001 R24: LED pilot light Flasi® series 18x24 mm with ill. screen 10x10 mm red, 24 V DC
 Lettering possible (screen printing); Minimum quantity: 100 pieces

Accessory: WSF220/12F Voltage divider for connecting Flasi® single or twin LED pilot lights with a service voltage of 12V DC to a 230 V AC power source.
 (1 voltage divider per ill. screen). Dimensions: Ø 28 x 36,5 mm.





Type WSF810



Type WSF143



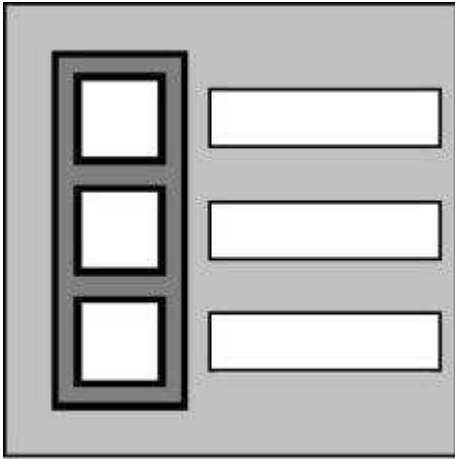
Type WSF144

- LED-pilot light modules **48 x 48 mm** with **1-3** illuminated screens **10 x 10 mm** and adjacent title blocks (Screen printing is offered as separate service at extra charge).
- For service voltages of 12 V DC to 115 V DC and 115 V AC as well as 230 V AC.
- Available colours for the ill. screens: ■ red, ■ yellow, ■ green, ■ orange, ■ blue, white, as well as bi-colour red-green and red-yellow (bi-colour executions for voltages from 12 V DC to 60 DC only)
- Free combination of the colours and numbers of the illuminated screens.
- Several special executions available like screw-on terminals, AC-executions of the low voltage versions etc. (see below)
- Faston connectors 2,8 x 0,8 mm (standard).
- Panel-cut-out: 45x45mm +/- 0,1

| Art.-No. | Standard voltages | Description | Mounting depth | Diagram |
|--|--|---|---|---------|
| WSF810... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC 115 V AC 230 V AC | Standard execution with common 0V (-) connector | 12-36 V DC: 10,4 mm 48 V DC: 12,4 mm 60 V DC: 12,4 mm 110 V DC: 18,7 mm 115/230 V AC: 21 mm | |
| WSF142... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC | With separate connector for lamp test | 12-48 V DC: 10,4 mm 60 V DC: 12,4 mm 110 V DC: 18,7 mm | |
| WSF143... ^{a)} R... ^{b)} | | Pushbutton module - no illuminated screens. Colour code in art.-no. is for push button cap | 10,4 mm | |
| WSF144... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC | LED-cluster with 2 illuminated screens and 1 push-button instead of screen no. 3 | same as WSF142 | |
| WSF821... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC | Special execution with connector for feedback to the control unit. | same as WSF142 | |
| WSF822... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC | Special execution with common Plus (+) 0V connector and separate negative (-) connectors | same as WSF142 | |
| WSF826... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC | Special executions with add. connectors for lamp test and feedback to control unit | 12-48 V DC: 10,4 mm 60 V DC: | |
| WSF824... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC | Special execution with individual connectors (6 connectors for 3 ill. screens) | same as WSF142 | |

a): Colour(s) (from top to bottom): 0 = blank, 1 = ■ red, 2 = ■ yellow, 3 = ■ green, 4 = ■ orange, 6 = ■ blue, 7 = white

b): Supply voltage, e.g. 24VDC or 230VAC, other voltages upon request



- LED pilot light modules **72 x 72 mm** with **1-3** ill. screens **15 x 15 mm** and adjacent title blocks (Screen printing is offered as separate service at extra charge).
- Available colours for the ill. screens: ■ red, ■ yellow, ■ green, ■ orange, ■ blue, □ white
- For service voltages of 12 V DC up to 115 V DC and 115 V AC as well as 230 VAC.
- Free combination of the colours and the number of the illuminated screens
- Faston connectors 2,8 x 0,8 mm, Screw-on terminals available at extra cost.
- Panel cut-out: 67x67mm +0 / -0,5

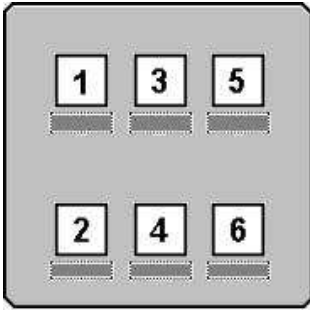
| Art.-No. | Standard voltage(s) | Description | Mounting depth | Diagram |
|--|--|--|---|---------|
| WSF815... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC 115 V AC 230 V AC | Standard execution with common 0V (-) connector | 12-48 V DC: 14 mm 60 V DC: 21 mm 110 V DC: 21 mm 115/230 V AC: 21 mm | |
| WSF145... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC | Special execution with individual connectors (6 connectors for 3 ill. screens) | same as WSF815 | |
| WSF815B... ^{a)} R... ^{b)} | 12/24/36/48/60 VDC 115 V DC 115 V AC 230 V AC | Special execution with separate connectors and individual voltages for each ill. screen (DC and/or AC!) | 12-48 V DC: 10,4 mm 60 V DC: 18,7 mm 110 V DC: 18,7 mm 115/230 V AC: 21 mm | |

^{a)}: Available colour(s) of the ill. screens : 0 = blank, 1 = ■ red, 2 = ■ yellow, 3 = ■ green, 4 = ■ orange, 6 = ■ blue, 7 = □ white

^{b)}: Service voltage, e.g. 12VDC or 230VAC, other voltages upon request

Accessories (for LED pilot light clusters 48 x 48 mm and 72 x 72 mm):

| Art.-No. | Description | |
|---------------|---|--|
| WSF94-240/125 | Resistor module for connecting 115 V DC LED pilot light clusters to a power source of 230 V DC. | |
| WSF05-400/12 | Transformer module for connecting 12 V DC LED pilot light clusters to a power source of 380/400 V AC. One transformer module is needed for each illuminated screen. | |



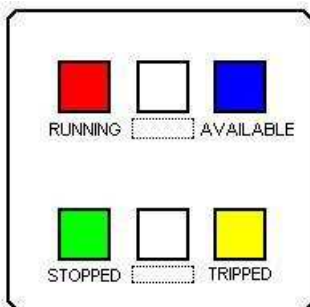
- LED-pilot light modules **48 x 48 mm** with **4-6** illuminated screens **10 x 10 mm** and adjacent title blocks (Screen printing is offered as a separate service at extra charge – sequence according to the illustration).
- Available colours for the illuminated screens: ■ red, ■ yellow, ■ green, ■ orange, ■ blue, □ white
- For service voltages of 12 V DC up to 60 V DC and 115 V AC as well as 230 VAC.
- Free combination of the colours and the number of the illuminated screens.
- Faston connectors 2,8 x 0,8 mm.
- Panel cut-out: 45x45mm +/- 0,1

| Art.-No. | Standard voltages | Description | Mounting depth |
|---|---------------------|--|--|
| WSF910A ^{a)} R.. ^{b)} | 12/24/36/48/60 V DC | LED pilot light module (cluster) with 4 to 6 illuminated screens 10x10 mm with common 0V (-) connector for service voltages from 12 V DC up to 60 V DC. | 12-36 V DC: 10,4 mm 48 V DC: 12,4 mm 60 V DC: 12,7 mm 115/230 V AC: 21 mm |
| WSF910B ^{a)} R.. ^{b)} | 12/24/36/48/60 V DC | LED pilot light module (cluster) with 4 to 6 illuminated screens 10x10 mm with separate connectors for each ill. screen for service voltages from 12 V DC up to 60 V DC. | 12-36 V DC: 10,4 mm 48 V DC: 12,4 mm 60 V DC: 12,4 mm 115/230 V AC: 21 mm |
| WSF911 ^{a)} R.. ^{b)} | 115 & 230 V AC | LED pilot light module (cluster) with 4 to 6 illuminated screens 10x10 mm with common 0V connector for service voltages of 115 V AC or to 230 V AC. | 115 V AC: 41 mm 230 V AC: 41 mm |

^{a)}: Available colour(s) of the ill. screens: 0 = blank, 1 = ■ red, 2 = ■ yellow, 3 = ■ green, 4 = ■ orange, 6 = ■ blue, 7 = □ white
Sequence of the ill. screens according to the illustration on top of this page

^{b)}: Voltage, e.g. 12VDC or 230VAC, other voltages upon request

Ordering example: WSF910A 130062 R24dc = LED pilot light module 48x48 mm with common 0V connector and 6 illuminated screens 10 x 10 mm (of which 4 are used), red / green / blank / blank / blue / yellow, 24 V DC.



Lettering according to information supplied by customer (max. 7 letters), screen printing will be charged separately.



| | | Art.-No. | Dimensions (mm) | | Panel cut-out | Mount. depth | Available colours of the ill. screens | Standard voltage | Connect. | |
|--|--|--|-----------------|--|------------------|--------------|---|---|---------------------|--|
| | | | Front frame | Illumin. screen | | | | | | |
| LED illuminated push-buttons & switches | | WSF10-0S. ^{a)} R.. ^{b)} dc WSF10-0T. ^{a)} R.. ^{b)} dc | 18x24 | 10x10 | 16x22 +/- 0,1 | 12,9 | <ul style="list-style-type: none"> ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange ■ 6 = blue □ 7 = white □ 8 = red/green[†] □ 9 = red/yellow[†] [†]bicolor | 12 V DC and 24 V DC – other voltages upon request | faston 2,8 x 0,5 mm | |
| | | WSF15-00S WSF15-00T | 24x24 | | 22x22 +/- 0,1 | 15.9 | <ul style="list-style-type: none"> ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange | | | |
| | | WSF10-0S. ^{a)} R.. ^{b)} dc WSF10-0T. ^{a)} R.. ^{b)} dc | 24x48 | 1 ill. screen 15x15mm, 1 push-button (latching or non-latching) | 22x46 +/- 0,1 | 12.9 | <ul style="list-style-type: none"> ■ 1 = red ■ 2 = yellow ■ 3 = green ■ 4 = orange ■ 6 = blue □ 7 = white | | | |

^{a)}: Available colours(s): 1 = ■ red, 2 = ■ yellow, 3 = ■ green, 4 = ■ orange, 6 = ■ blue, 7 = □ white
Colours for caps of push-buttons: white, green, red, blue, yellow and orange. Please specify when ordering.
If no specification is given, push-buttons with white caps will be supplied.

^{b)}: Voltage: 12VDC or 24VDC, other voltages upon request
S=switch (latching) / T=push-button (non latching), to be completed within the art.-no.

Special executions upon request.