

Indicator



PSE M30 AE AI Indicator

Description

- The indicators are available with lettering, ring illumination or area illumination
- RGB, RGY: flexible input voltage from 5 - 28 VDC at constant brightness
- With color combination RGB and RGY
- 7 possible colors with RGB configuration
- 3 possible colors with RGY configuration
- Can be combined with the available piezo switch variants
- Flexible wire connection

Unique Selling Proposition

- Variety of design options regarding size, colour, material and connections
- High reliability, long lifetime
- With RGB or RGY ring illumination or area illumination

Technical Data

Electrical Data

| | |
|----------------------|--|
| ESD-protection-class | 8 kV Class 3B |
| Supply Voltage | Point Illumination without series resistor |
| Supply Voltage RGB | 5 - 28 VDC |

See below:

Approvals and Compliances

Characteristics

- For use in harsh environments, both indoors and outdoors (see technical data)

References

Alternative: Other diameter

Alternative: switch normal operation:

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#), [Microsite](#)

Mechanical Data

| | |
|-----------------------|--------|
| Mounting screw torque | 2.5 Nm |
| Shock Protection | IK02 |

Climatical Data

| | |
|--|---|
| Operating Temperature | -40 to 85 °C |
| Storage Temperature | -40 to 85 °C |
| IP-Protection | IP67 acc. to IEC 60529, IP69K acc. to DIN 40050-9 |
| Environmental Assessment | +55°C / 93% r.h. acc. to DIN EN 60068-2-30 |
| Salt Spray Test (acc. to DIN 50021-SS) | 24 h / 48 h / 96 h Residence Time |

Material

| | |
|-----------|--------------------|
| Housing | Aluminium anodized |
| Seal Ring | NBR70 |
| Nut | Steel galvanized |




Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.



Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--|--------------------------------|-------------------------|--|
|  | Designed for applications acc. | MIL-STD: | 202F Method 107G, 202F Method 204D, 202F Method 213B, 416D Method RS103, 810E Method 501.3, 810E Method 502.3, 810E Method 507.3 |
|  | Designed for applications acc. | VDE Certificate Number: | DIN EN 61000-4-2, DIN EN 61000-4-4, DIN EN 61000-4-5 |
|  | Designed for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

Compliances

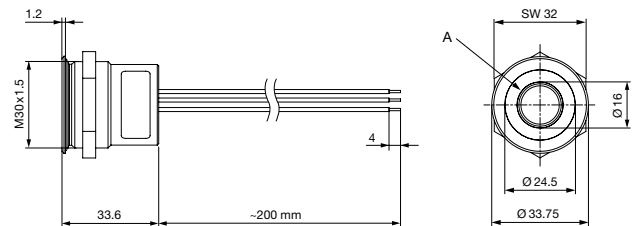
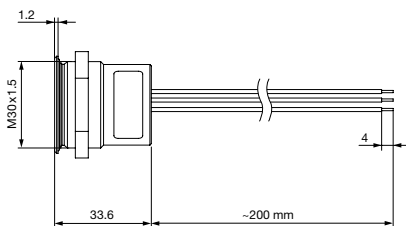
The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|---------|-------------|---|
|  | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

Dimension [mm]

PSE AE M30 Area Illumination

PSE AE M30 Ring Illumination

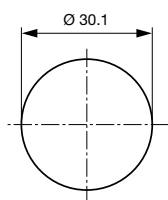


A = Illumination Area

A = Illumination Area

Dimension

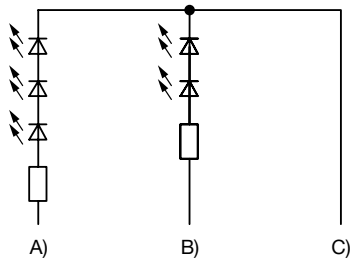
PSE M30



Drilling diagram

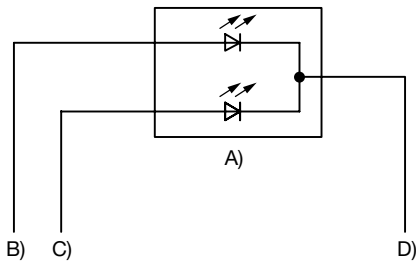
Diagrams

Ring and Area Illumination 12/24 VDC



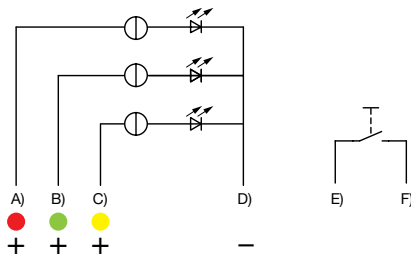
- A) Cable 1 (color of the LEDs), Supply voltage first LED group
- B) Cable 3 (color of the LEDs), Supply voltage second LED group
- C) Cable 2 (black), Common mass of both LED groups

PSE AE PI



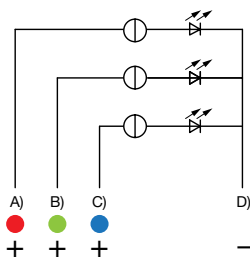
- A) Double-LED (2 colors, 3 pins) or simple LED (2 pins)
- B) Cable 1 (color 1 of the LED), Supply voltage
- C) Cable 2 (color 2 of the LED), Supply voltage
- D) Cable 3 (black), Mass

PSE M22 / M30 RI RGY



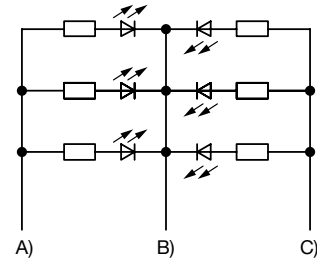
- A) Cable (color of the LED), Supply voltage
- B) Cable (color of the LED), Supply voltage
- C) Cable (color of the LED), Supply voltage
- D) Cable (black), Common mass
- E) Cable (white), Input and output MCS switch
- F) Cable (white), Input and output MCS switch

PSE AE RGB



- A) Cable 1 (color of the LED), Supply voltage
- B) Cable 2 (color of the LED), Supply voltage
- C) Cable 3 (color of the LED), Supply voltage
- D) Cable 4 (black), Common mass

Ring and Area Illumination 5 VDC



- A) Cable 1 (color of the LEDs), Supply voltage first LED group
- B) Cable 2 (black), Common mass of both LED groups
- C) Cable 3 (color of the LEDs), Supply voltage second LED group

PI = point illumination
 RI = ring illumination

Illumination options for RGY

| Lighting type | Active terminal A) ● | Active terminal B) ● | Active terminal C) ● | Resulting Color |
|------------------------|---|---|--|--|
| Multicolor Singlecolor | A | | | Red ● |
| Multicolor Singlecolor | | B | | Green ● |
| Multicolor Singlecolor | | | C | Yellow ● |

Illumination options for RGB

| Lighting type | Active terminal A) ● | Active terminal B) ● | Active terminal C) ● | Resulting Color |
|---------------------------|---|---|--|--|
| Multicolor Singlecolor | A | | | Red ● |
| Multicolor Singlecolor | | B | | Green ● |
| Multicolor Singlecolor | | | C | Blue ● |
| Multicolor RGB Additive 2 | A | B | | Yellow ● |
| Multicolor RGB Additive 2 | A | | C | Magenta ● |
| Multicolor RGB Additive 2 | | B | C | Cyan ● |
| Multicolor RGB Additive 3 | A | B | C | White ○ |

Point Illumination

| Operating Data | Forward Current max. | Forward Voltage at 10 mA | Forward Voltage max. |
|----------------|----------------------|--------------------------|----------------------|
| LED red | 25 mA | 2.1 VDC | 2.5 VDC |
| LED green | 25 mA | 2.05 VDC | 2.5 VDC |
| LED yellow | 30 mA | 2.0 VDC | 2.5 VDC |

Attention: Point illuminated Indicators are delivered without series resistor.

All Variants

| Mounting Diameter [mm] | Terminal | Housing Material, Torsion Protection | Colour of Housing | Surface Finish | Shock Protection | Illumination, LED | Config. Code | Order Number |
|------------------------|--------------------------|--------------------------------------|-------------------|----------------|------------------|----------------------------------|--------------|--------------|
| 30 | Flexible wire connection | Aluminium anodized ,no | nature | E | IK02 | Backlighted, red / green, 24 VDC | PSE M 30 AE | 1241.3532 |
| 30 | Flexible wire connection | Aluminium anodized ,no | nature | E | IK02 | Backlighted, RGB, 5 - 28 VDC | PSE M 30 AE | 1241.3671 |
| 30 | Flexible wire connection | Aluminium anodized ,no | nature | E | IK02 | Backlighted, RGY, 5 - 28 VDC | PSE M 30 AE | 1241.3672 |

Legende:
 Type: PSE
 AE = Indicator
 RU = PI = Point Illumination
 RI = Ring Illumination
 AI = Area Illumination
 Alu = Aluminium
 ES = Stainless steel
 IF = Finger guidance
 E = without finger guidance

Nut with gasket are enclosed in the box.

Other mounting diameters, materials, colors, connections, supply voltages possible available on request.
 Special materials e.g. Marine grade stainless steel for use in salt and chlorinated environment on request.

5 VDC and 12 VDC RI variants on request (MOQ 500 pieces)

Most Popular.

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging unit

20 Pcs



- Indicator elements in ESD safe packaging
- Screw nuts and sealing rings in a bag (enclosed in the box)

Accessories

Description



Power Supply

Power Supply IP42 for LED- and Illumination applications indoor 90~264 VAC => 24 VDC 0.34 A 8 W

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