

Illuminated Pushbutton Switch



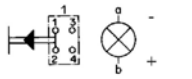
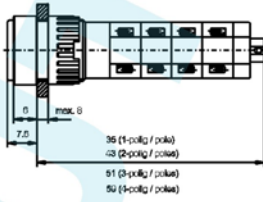
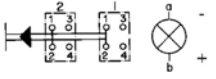
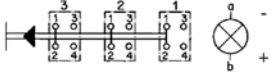
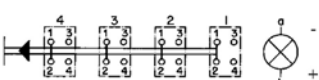
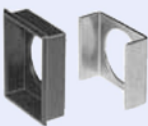
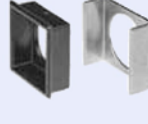
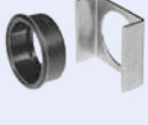
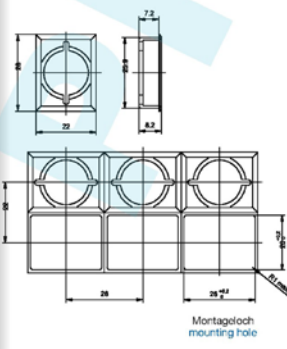
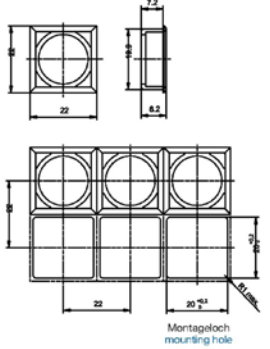
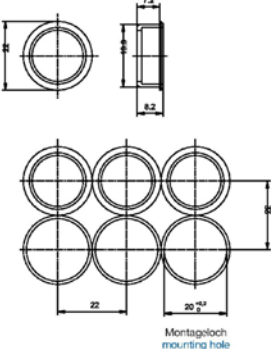
**Weblinks**  
[html-datasheet](#), [General Product Information](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

All Variants

| Description | Order Number |
|-------------|--------------|
| EMF SWITCH  | 0041.2371    |

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

## Leuchtdrucktaster EMF Illuminated pushbutton EMF

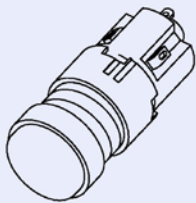
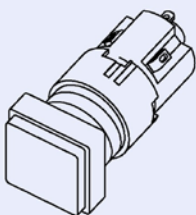
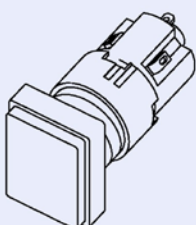
| Ausführungen<br>Models                                                                                                                                                                                                                                            | Schaltschema<br>Contact diagram                                                                                          | Einbaulänge L<br>Length L                                                                                             | Abmessungen / Bohrplan<br>Dimensions / drilling diagram                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                  |                                         | 35                                                                                                                    |                              |  |
|                                                                                                                                                                                  |                                         | 43                                                                                                                    |                                                                                                                |  |
|                                                                                                                                                                                  |                                         | 51                                                                                                                    |                                                                                                                |  |
|                                                                                                                                                                                 |                                         | 59                                                                                                                    |                                                                                                                |  |
| Zubehör Versenkrahmen / Accessories flush mounting bezel                                                                                                                                                                                                          |                                                                                                                          |                                                                                                                       |                                                                                                                |  |
| <br><br> | <b>Rechteckig<br/>rectangular</b><br> | <b>Quadratisch<br/>Square</b><br> | <b>Rund<br/>round</b><br> |  |
|                                                                                                                                                                                                                                                                   |                                                                                                                          |                                                                                                                       |                                                                                                                |  |
|                                                                                                                                                                                                                                                                   |                                                                                                                          |                                                                                                                       |                                                                                                                |  |

## Technische Daten EMF Technical Data EMF

| 1. Mechanische Kennwerte / Mechanical data                                            |                                 | EMF                                                                                                                                                                              |          |
|---------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Schutzgrad / Degree of protection                                                     |                                 | IP 40 / IP 67                                                                                                                                                                    |          |
| Betätigungskraft / Actuating force                                                    |                                 | > 1,5 N                                                                                                                                                                          |          |
| Schaltweg / Contact travel                                                            |                                 | 3,2 mm                                                                                                                                                                           |          |
| Endanschlagfestigkeit (DIN 41640 T. 19) / End stop strength                           |                                 | > 100 N                                                                                                                                                                          |          |
| Lebensdauer (IEC 512-5 Test 9a, Betätigungskraft 5 N)<br>Lifetime                     |                                 | > 2 x 10 <sup>6</sup> Betätigungen<br>Operations                                                                                                                                 |          |
| Vibrationsbeständigkeit<br>Vibration resistance                                       |                                 | IEC 68-2-6 Test Fc Detailangaben auf Anfrage<br>IEC 68-2-6 Test Fc Details on request                                                                                            |          |
| 2. Elektrische Kennwerte / Electrical data                                            |                                 | EMF                                                                                                                                                                              |          |
| Schaltspannung max. / Switching voltage max.                                          |                                 | 250 V AC                                                                                                                                                                         | 250 V DC |
| Schaltstrom max. / Switching current max.                                             |                                 | 5 A                                                                                                                                                                              | 0,2 A    |
| Lebensdauer (bei Nennleistung 0,12 W)<br>Lifetime (at rated breaking capacity 0,12 W) |                                 | 5 A / 250 V AC > 5 x 10 <sup>4</sup> Bet.<br>4 A / 250 V AC > 6 x 10 <sup>4</sup> Bet.<br>2 A / 250 V AC > 2 x 10 <sup>5</sup> Bet.<br>1 A / 250 V AC > 4 x 10 <sup>5</sup> Bet. |          |
| Durchgangswiderstand, neu (IEC 512-2, mV-Methode)<br>Initial contact resistance, new  |                                 | < 10 mΩ                                                                                                                                                                          |          |
| Isolationswiderstand (IEC 341-1)<br>Insulation resistance                             |                                 | > 10 <sup>4</sup> MΩ 500 V DC                                                                                                                                                    |          |
| Prüfspannung / Test voltage                                                           |                                 | > 4.000 V, 50 Hz, 1 min. zwischen Metallplatte und Anschlüssen<br>between housing and terminals                                                                                  |          |
| 3. Sonstige Kennwerte / Other data                                                    |                                 | EMF                                                                                                                                                                              |          |
| Lötbarkeit<br>Solderability                                                           | IEC 68-2-20, Test Ta, Methode 2 | 350 °C, 2 s,                                                                                                                                                                     |          |
| Lötwärmebeständigkeit<br>Soldering heat resistance                                    | IEC 68-2-20, Test Tb, Methode 2 | 350 °C, 10 s,                                                                                                                                                                    |          |
| Umgebungstemperatur<br>Ambient temperature                                            |                                 | -40 °C...+55 °C (mit Glühlampe)<br>(with lamp)<br>-40 °C...+85 °C (ohne Glühlampe)<br>(without lamp)                                                                             |          |
| Lagertemperatur / Storage temperature                                                 |                                 | -40 °C...+85 °C                                                                                                                                                                  |          |
| Schutzklasse (IEC 529, DIN 40050)<br>Class of protection                              |                                 | II/IEC 536                                                                                                                                                                       |          |
| 4. Werkstoffe / Materials                                                             |                                 | EMF                                                                                                                                                                              |          |
| Kontakmaterial<br>Contact material                                                    |                                 | Silber / Nickel, goldplattiert<br>silver / nickel, gold-plated                                                                                                                   |          |
| Löt-Anschlüsse<br>Solder terminals                                                    |                                 | Draht: max. 2 x 0,8 mm <sup>2</sup><br>wire: max. 2 x 0,8 mm <sup>2</sup><br>Litzenquerschnitt max. 0,75 mm <sup>2</sup><br>stranded wire: max. 0,75 mm <sup>2</sup>             |          |

## Leuchtdrucktaster EMF

### Illuminated push-button EMF

| Ausführungen<br>Models                                                              | Betätigerform<br>Actuator form                  | Typ<br>Type                 | Varianten<br>Variations                  | Artikelnummer<br>Part Number |
|-------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------|------------------------------------------|------------------------------|
|    | Rund 18 mm<br>round 18 mm                       | Taster<br>momentary action  | Öffner/Schließer 1-polig<br>NC/NO 1 pole | 0041.2321                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 2-polig<br>NC/NO 2 pole | 0041.2322                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 3-polig<br>NC/NO 3 pole | 0041.2323                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 4-polig<br>NC/NO 4 pole | 0041.2324                    |
|                                                                                     |                                                 | Schalter<br>latching action | Öffner/Schließer 1-polig<br>NC/NO 1 pole | 0041.2371                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 2-polig<br>NC/NO 2 pole | 0041.2372                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 3-polig<br>NC/NO 3 pole | 0041.2373                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 4-polig<br>NC/NO 4 pole | 0041.2374                    |
|  | Quadratisch 18 x 18 mm<br>square 18 x 18 mm     | Taster<br>momentary action  | Öffner/Schließer 1-polig<br>NC/NO 1 pole | 0041.2311                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 2-polig<br>NC/NO 2 pole | 0041.2312                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 3-polig<br>NC/NO 3 pole | 0041.2313                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 4-polig<br>NC/NO 4 pole | 0041.2314                    |
|                                                                                     |                                                 | Schalter<br>latching action | Öffner/Schließer 1-polig<br>NC/NO 1 pole | 0041.2361                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 2-polig<br>NC/NO 2 pole | 0041.2362                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 3-polig<br>NC/NO 3 pole | 0041.2363                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 4-polig<br>NC/NO 4 pole | 0041.2364                    |
|  | Rechteckig 18 x 24 mm<br>rectangular 18 x 24 mm | Taster<br>momentary action  | Öffner/Schließer 1-polig<br>NC/NO 1 pole | 0041.2301                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 2-polig<br>NC/NO 2 pole | 0041.2302                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 3-polig<br>NC/NO 3 pole | 0041.2303                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 4-polig<br>NC/NO 4 pole | 0041.2304                    |
|                                                                                     |                                                 | Schalter<br>latching action | Öffner/Schließer 1-polig<br>NC/NO 1 pole | 0041.2351                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 2-polig<br>NC/NO 2 pole | 0041.2352                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 3-polig<br>NC/NO 3 pole | 0041.2353                    |
|                                                                                     |                                                 |                             | Öffner/Schließer 4-polig<br>NC/NO 4 pole | 0041.2354                    |

## Zubehör EMF Accessories EMF

| Ausführungen<br>Models                                                              | Farbe<br>Colour             | Artikelnummer<br>Part Number                                                      | Artikelnummer<br>Part Number                                                        | Artikelnummer<br>Part Number                                                        |
|-------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Kalotten<br>Lenses                                                                  |                             |  |  |  |
|                                                                                     |                             | Ø 18 mm                                                                           | 18x18 mm                                                                            | 18x24 mm                                                                            |
|    | glasklar clear glass        | 0854.0621                                                                         | 0854.0601                                                                           | 0854.0581                                                                           |
|    | rotklar clear red           | 0854.0622                                                                         | 0854.0602                                                                           | 0854.0582                                                                           |
|    | grünklar clear green        | 0854.0623                                                                         | 0854.0603                                                                           | 0854.0583                                                                           |
|                                                                                     | gelbklar clear yellow       | 0854.0624                                                                         | 0854.0604                                                                           | 0854.0584                                                                           |
|                                                                                     | blauklar clear blue         | 0854.0625                                                                         | 0854.0605                                                                           | 0854.0585                                                                           |
|                                                                                     | opal pearl                  | 0854.0631                                                                         | 0854.0611                                                                           | 0854.0591                                                                           |
|                                                                                     | rot gedeckt diffuse red     | 0854.0632                                                                         | 0854.0612                                                                           | 0854.0592                                                                           |
|                                                                                     | grün gedeckt diffuse green  | 0854.0633                                                                         | 0854.0613                                                                           | 0854.0593                                                                           |
|                                                                                     | gelb gedeckt diffuse yellow | 0854.0634                                                                         | 0854.0614                                                                           | 0854.0594                                                                           |
|                                                                                     | blau gedeckt diffuse blue   | 0854.0635                                                                         | 0854.0615                                                                           | 0854.0595                                                                           |
|                                                                                     | schwarz* black*             | 0854.0636                                                                         | 0854.0616                                                                           | 0854.0596                                                                           |
| Streuscheiben<br>Legend plate insert                                                | weiß / opak white / pearl   |                                                                                   |                                                                                     |                                                                                     |
|   |                             | 0854.0873                                                                         | 0854.0872                                                                           | 0854.0871                                                                           |
|  |                             | 0854.1802                                                                         | 0854.1602                                                                           | 0854.1402                                                                           |
|  |                             | 0854.1803                                                                         | 0854.1603                                                                           | 0854.1403                                                                           |
|  |                             | 0854.1804                                                                         | 0854.1604                                                                           | 0854.1404                                                                           |
|  |                             | 0854.1805                                                                         | 0854.1605                                                                           | 0854.1405                                                                           |
|  |                             | 0854.1806                                                                         | 0854.1606                                                                           | 0854.1406                                                                           |
|  |                             | 0854.1807                                                                         | 0854.1607                                                                           | 0854.1407                                                                           |
|  |                             | 0854.1808                                                                         | 0854.1608                                                                           | 0854.1408                                                                           |
|  |                             | 0854.1809                                                                         | 0854.1609                                                                           | 0854.1409                                                                           |
|  |                             | 0854.1810                                                                         | 0854.1610                                                                           | 0854.1410                                                                           |
|  |                             | 0854.1811                                                                         | 0854.1611                                                                           | 0854.1411                                                                           |
|  |                             | 0854.1812                                                                         | 0854.1612                                                                           | 0854.1412                                                                           |
|  |                             | 0854.1813                                                                         | 0854.1613                                                                           | 0854.1413                                                                           |

Farbe der Streuscheibe weiß/opak. Beschriftet nur zusammen mit klarfarbigen Kalotten verwenden.  
The white/translucent legend plate with black inscriptions use only with clear glass lenses.  
Andere Beschriftungen und Symbole auf Anfrage / Other legends available on request.  
\*Für beleuchtete Anwendungen nicht empfohlen / \*Not recommended for illuminated switches.



## Zubehör EMF Accessories EMF

| Ausführungen<br>Models                    | Gehäuseform<br>Housing                                                       | Rastermaß Reihenmontage<br>Spacing inline mounting | Artikelnummer<br>Part Number |
|-------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|------------------------------|
| Schutzabdeckung<br>Protection shield      | Rechteckig Einzelmontage<br>Rectangular single mounting                      | 25 mm x 20 mm                                      | 0886.0010                    |
|                                           | Rechteckig Einzelmontage / Reihenmontage<br>Rectangular single / in-mounting | 25 mm x 20 mm                                      | 0886.0011                    |
|                                           | Quadratisch<br>Square                                                        | 20 mm x 20 mm                                      | 0886.0012                    |
|                                           | Rund<br>Round                                                                | 20 mm x 20 mm                                      | 0886.0013                    |
| Spritzwasserschutz IP 67<br>Splash guards | Rechteckig Einzelmontage<br>Rectangular single mounting                      | 24 mm x 30 mm                                      | 0886.0002                    |
|                                           | Quadratisch<br>Square                                                        | 24 mm x 24 mm                                      | 0886.0001                    |
| Schutzklappe<br>Protection cap            | Rechteckig<br>Rectangular                                                    | 24 mm x 30 mm                                      | 0886.0004                    |
|                                           | Quadratisch<br>Square                                                        | 24 mm x 24 mm                                      | 0886.0003                    |
| Blindabdeckung<br>Blanking plate          | Rechteckig<br>Rectangular                                                    | 24 mm x 18 mm                                      | 0886.0005                    |
|                                           | Quadratisch<br>Square                                                        | 18 mm x 18 mm                                      | 0886.0006                    |
|                                           | Rund<br>Round                                                                | 18 mm x 18 mm                                      | 0886.0007                    |

## Zubehör EMF Accessories EMF

| Ausführungen<br>Models                                                                                                         | Gehäuseform<br>Housing                                  | Artikelnummer<br>Part Number |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------|
| Versenkrahmen<br>Flush mounting bezel<br>     | Rechteckig Einzelmontage<br>Rectangular single mounting | 0886.0017                    |
|                                               | Quadratisch<br>Square                                   | 0886.0018                    |
|                                               | Rund<br>Round                                           | 0886.0019                    |
| Verdrehsicherung<br>Anti-twisting plate<br> | Universell<br>General                                   | 0886.0030                    |
| Isolationshülse<br>Insulating boot<br>      | Universell<br>General                                   | 0859.0081                    |
| Lampenzieher<br>Lamp extractor<br>          | Universell<br>General                                   | 0853.0621                    |
| Montageschlüssel<br>Mounting key<br>        | Universell<br>General                                   | 0853.0622                    |
|                                                                                                                                |                                                         |                              |

## Zubehör EMS Accessories EMS

| Ausführungen<br>Models                                                                                                                         | Spannung<br>Voltage | Stromaufnahme<br>Consumption | Helligkeit<br>Brightness | Lebensdauer AC<br>Lifetime AC | Lebensdauer DC<br>Lifetime DC | Artikelnummer<br>Part Number |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|--------------------------|-------------------------------|-------------------------------|------------------------------|
| Glühlampen T 1¼<br>Midget groove<br>Incandescent lamp<br><br> | 6,3V                | 200 mA                       | 0,4 MSCP                 | 50.000 h                      | 25.000 h                      | 0913.4001                    |
|                                                                                                                                                | 14V                 | 80 mA                        | 0,2 MSCP                 | 15.000 h                      | 7.000 h                       | 0913.4002                    |
|                                                                                                                                                | 28V                 | 40 mA                        | 0,2 MSCP                 | 10.000 h                      | 5.000 h                       | 0913.4003                    |
|                                                                                                                                                | 48V                 | 25 mA                        | 0,2 MSCP                 | 5.000 h                       | 2.000 h                       | 0913.4004                    |
|                                                                                                                                                | 60V                 | 20 mA                        | 0,3 MSCP                 | 1.000 h                       | 1.000 h                       | 0913.4005                    |

Glühlampen mit kleiner Stromaufnahme auf Anfrage.  
 Die Verwendung von Glühlampen > 60V wird von verschiedenen Prüfstellen eingeschränkt.  
 Incandescent lamps with lower power consumption on request.  
 The use of incandescent lamps > 60V is limited by different standards. Check with testing agency.

|                                                                                                                                                                       | Spannung<br>Voltage | Farbe<br>colour | Betriebsstrom<br>Operating current | Verlustleistung<br>Power dissip. | Lichtstärke<br>Lumin. intensity | Artikelnummer<br>Part Number |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|------------------------------------|----------------------------------|---------------------------------|------------------------------|
| LED T 1¼<br>Midget groove<br><br><br>Fußkontakt = +Pol<br>Base contact = +polarity | 6V                  | rot / red       | 30 mA                              | 250 mW                           | 7 mcd                           | 0925.0104                    |
|                                                                                                                                                                       | 6V                  | grün / green    | 30 mA                              | 250 mW                           | 30 mcd                          | 0925.0105                    |
|                                                                                                                                                                       | 6V                  | gelb / yellow   | 30 mA                              | 250 mW                           | 22 mcd                          | 0925.0106                    |
|                                                                                                                                                                       | 12V                 | rot / red       | 15 mA                              | 250 mW                           | 7 mcd                           | 0925.0107                    |
|                                                                                                                                                                       | 12V                 | grün / green    | 15 mA                              | 250 mW                           | 30 mcd                          | 0925.0108                    |
|                                                                                                                                                                       | 12V                 | gelb / yellow   | 15 mA                              | 250 mW                           | 22 mcd                          | 0925.0109                    |
|                                                                                                                                                                       | 28V                 | rot / red       | 10 mA                              | 250 mW                           | 7 mcd                           | 0925.0110                    |
|                                                                                                                                                                       | 28V                 | grün / green    | 10 mA                              | 250 mW                           | 30 mcd                          | 0925.0111                    |
|                                                                                                                                                                       | 28V                 | gelb / yellow   | 10 mA                              | 250 mW                           | 22 mcd                          | 0925.0112                    |