Metal Switch Medium Stroke, Switching Voltage up to 250 VAC



See below: Approvals and Compliances

Description

- Momentary action switch available in version: Standard (ST), with Let-
- tering (LE), with Point Illumination (PI) and with Ring Illumination (RI)
- Single color or RGB illumination
- Choice from 7 colors for RGB variants
- Assembly method: clip micro-switch into the saddle, secure switch using mounting nut
- Equipped with flat-pin plugs to permit fast connection

Unique Selling Proposition

- Attractive tactile feedback
- High quality materials
- Long life span
- Single color or homogeneous RGB illumination

- Characteristics
- Housing and actuator material: high-quality stainless steel
- Variety of design options regarding size, colour, illumination, connection or lettering
- Switching voltage from 30 VDC to 250 VAC, switching current from 0.1 A to 10 A $\,$
- IP-Protection: IP67 from front side to contact area, Micro-Switch is available in versions IP40 or IP67
- For use in harsh environments (see technical data)

References

Alternative: Push button with impulse function: PSE IV 22 Alternative: switch with latching function: MSM LA CS 22 Alternative: switch with backlighted illumination: Alternative: Other diameter MSM 19; MSM 24 Alternative: Push button without stroke:

Alternative: switch with ring illumination: MSM DP 22; MSM LA 22; PSE IV 22; PSE NO 22

Alternative: Pushbutton without lighting: Alternative: switch for EX-proof applications: PSE EX 22

Weblinks

pdf data sheet, html datasheet, General Product Information, CAD-Drawings, Product News, Detailed request for product

Technical Data Electrical Data

Switching Eurotian	
Switching Function	momentary
Number of Poles	SPDT
Supply Voltage	24 VDC Ring Illumination, Point Illum
	nation without series resistor, LED or rating data are listed in separate table
	5 VDC and 12 VDC RI variants (except
	for RGB) on request (MOQ 500 piece
Impulse Withstand Voltage	2 kV with Ring Illumination
(ESD)	
	4 kV without Illumination
Micro Switch 5 A / 125 VAC	or 3 A / 250 VAC, IP40
Contact Material	Ag
Switching Voltage	max. 125/250VAC
Switching Current	max. 5 / 3 A
Rated Switching Capacity	750 W
Lifetime	0.2 million actuations at Rated Swit-
	ching Capacity
Contact Resistance	< 30 mΩ
Insulation Resistance	> 100 MΩ
Duration of Bounce	< 5 ms
Micro Switch 0,1 A / 30 VDC	
Contact Material	
Switching Voltage	max. 30 VDC
Switching Current	max. 0.1 A
Rated Switching Capacity	3 W
Lifetime	0.2 million actuations at Rated Swit- ching Capacity
Contact Desistance	
	< 50 m Ω
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40)	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag
IP40) Contact Material Switching Voltage	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.05 million actuations at Rated Swit-
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.05 million actuations at Rated Swit- ching Capacity
Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.05 million actuations at Rated Swit- ching Capacity < 30 mΩ
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Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance Duration of Bounce	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.05 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ < 5 ms
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Insulation Resistance Duration of Bounce Micro Switch for Electrical I IP40) Contact Material Switching Voltage Switching Current Rated Switching Capacity Lifetime Contact Resistance Insulation Resistance Duration of Bounce Micro Switch 6 A / 250 VAC, Switching Voltage	< 50 mΩ > 100 MΩ < 5 ms Rating 10 A / 250 VAC (Protection Class Ag max. 250 VAC max. 10 A 2500 W 0.05 million actuations at Rated Swit- ching Capacity < 30 mΩ > 100 MΩ < 5 ms
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Mechanical Data	
Actuating Force	4.5 N
Actuating Travel	1.0 mm
Lifetime	1.5 million actuations
Shock Protection	IK07
Mounting screw torque Plastic Nut	max. 3.5 Nm
Mounting screw torque Stain- less Steel Nut	max. 16 Nm
Climatical Data	
Operating Temperature	-25 to 85°C
Storage Temperature	-25 to 85 °C
Protection Class	IP67
Switching Unit	IP40
	IP67 optional
Salt Spray Test (acc. to DIN 50021-SS)	24 h / 48 h / 96 h Residence Time
Material	
Housing	Stainless Steel
Actuator	Stainless Steel
Light Conductor (Point Illumi- nation)	PC
Illuminated Ring (Ring Illumi- nation)	PA for dotted single color variants
	PMMA for RGB and homogeneous sin
	gle color variants
Seal Ring	NBR70
Switcher Collet	PA
Plastic Nut	PA, UL94

Approvals and Compliances

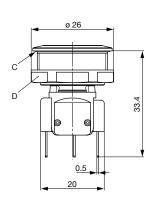
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

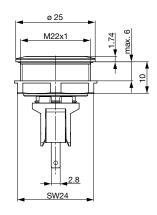
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical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

Product standa	irds				
Product standards	s that are referenced				
Organization	Design	Standard	Description		
IEC	Designed according to	IEC / EN 61058-1	Switches for appliances. Part 1. General requirements		
(h)	Designed according to	UL 61058	UL standard for safety special-use switches		
Application sta					
Application standa	ards where the product can be used				
Organization	Design	Standard	Description		
IEC	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Parl 1: Safety requirements		
Compliances					
The product comp	blies with following Guide Lines				
Identification	Details	Initiator	Description		
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863		
REACH	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.		

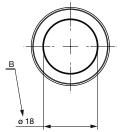
Dimension [mm]

MSM 22 ST

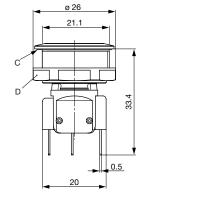


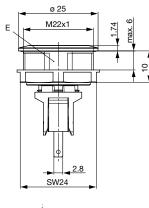




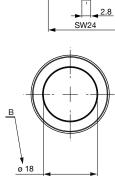


MSM 22 LE

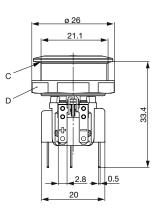


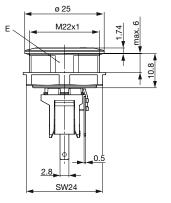




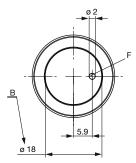


MSM 22 PI

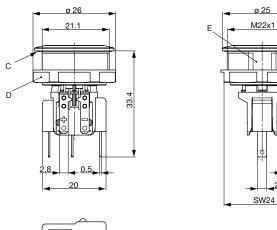




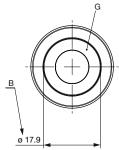




4 B.SCHURTER Switches







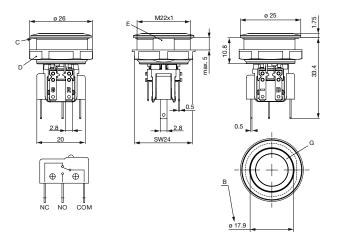
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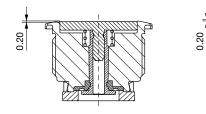
MSM 22 RI RGB

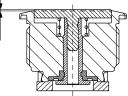


Legend

- B = Actuating Area
- C = Sealing D = Nut
- E = Anti-rotation protectionF = Point illumination
- G = Illumination ring

Tolerance Range Actuator Tolerance Range





The mounting tolerance range of the actuator varies from 0.2 mm projection length and 0.2 mm short length to the housing edge. The slanting position of the actuator can range within this tolerance.

Dimension

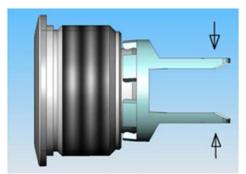
MSM 22 ST / MSM 22 RI

MSM 22 LE / MSM 22 PI / MSM 22 **RI** optional

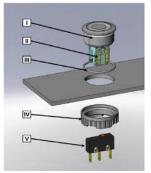




Assembly Instructions



During assembly, the protruding bars of the holder should not be pressed together.



I Housing II Flat Pin Terminal (Illumination) III Gasket IV Nut (Nut type see Dimensions) V Module Switching Contact

Installation Instruction:

1.) Place the gasket accurately on the actuator housing. Then mount the actuator housing assembly into the panel.

2.) Tighten the screw nut according to the torque instructions.

3.) Clasp the module switching contact into the micro switch holder of the actuator housing.

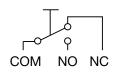
Installation information:

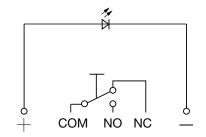
- The power supply and the configuration of the flat pin terminals have to be installed correctly for the illumination and micro switch function.
 Insulate the terminals as required. Fully insulated plug-in sleeves are recommended.
 Installation instructions according to VDE-standard DIN VDE 0100-100 or alternatively IEC 60354 standard.

Diagrams

MSM ST / MSM LE

MSM PI

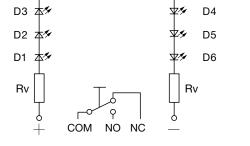




MSM RI / 24 V Single color

MSM RI / 24 V RGB

terminal assignment with resistors for 24 VDC



terminal R LED +pole red LED	 R	í í			—	
terminal G LED +pole green LED	 G	/	rminal- D -pole ound (GND)	Ē		
terminal B LED +pole	 B	//		CON	/ NO	NC

Lighting type	Active terminal R)	Active terminal G)	Active terminal B)	Resulting Color
Singlecolor	x			Red 🔴
Singlecolor		х		Green 🔴
Singlecolor			x	Blue 🔵
RGB Additive 2	x	x		Yellow 😑
RGB Additive 2	x		x	Magenta 🔴
RGB Additive 2		x	x	Cyan 🔵
RGB Additive 3	x	x	x	White 🔿

Illumination options for RGB

Point Illumination

Operating Data	Forward Current max.	Forward Voltage at 10 mA	Forward Voltage max.				
LED red	30 mA	1.9 VDC	3.0 VDC				
LED green	30 mA	2.4 VDC	3.0 VDC				
LED yellow	30 mA	2.4 VDC	3.0 VDC				
LED blue	20 mA	3.8 VDC	4.5 VDC				
LED red/green	25 mA	2.0 VDC	2.5 VDC				
Attention: Switches are delivered without	Attention: Switches are delivered without series resistor.						

Marking

The last three digits in the orde	er number define the lettering:
000	No Lettering
001-074	Standard Lettering
101-	Customized Lettering

Lettering Colour of Laser Lettering

Material	Lettering Colour	
Stainless Steel	black	Filled letters

Order Index Lettering

Laser Marking			
001 = A	021 = U	041 =÷	061 = EIN
002 = B	022 = V	042 = *	062 = AUS
003 = C	023 = W	043 = =	063 = AUF
004 = D	024 = X	044 = #	064 = AB
005 = E	025 = Y	045 = ↔	065 = ON
006 = F	026 = Z	046 = \$	066 = OFF
007 = G	027 = 0	047 = →	067 = UP
008 = H	028 = 1	048 = ←	068 = DOWN
009 = I	029 = 2	049 = ↓	069 = HIGH
010 = J	030 = 3	050 = ↑	070 = LOW
011 = K	031 = 4	051 = %	071 = ON/OFF
012 = L	032 = 5	052 = √	072 = START
013 = M	033 = 6	053 = CTRL	073 = RESET
014 = N	034 = 7	054 = RETURN	074 =
015 = O	035 = 8	055 = SHIFT	075 = 🌾
016 = P	036 = 9	056 = LOCK	076 =
017 = Q	037 =+	057 = STOP	077 =
018 = R	038 =-	058 = ENTER	
019 = S	039 =.	059 = BACK	
020 = T	040 = x	060 = LINE	
Please note that the font size d	lepends on the number of charac	ters	

All Variants

IP Switching Unit	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material, Tor- sion Protection	Config. Code	Order Number
	[A]	[VAC/ VDC]					
IP40	100 mA	30 VDC	non-illuminated	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.1110000
IP40	5/3A	125/250 VAC	non-illuminated	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.1120000
IP40	5/3A	125/250 VAC	non-illuminated	Alu red ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.3120000
IP40	5/3A	125/250 VAC	non-illuminated	Alu red ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.3120057
IP40	5/3A	125/250 VAC	non-illuminated	Alu red ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.3120066
IP40	5/3A	125/250 VAC	non-illuminated	Alu green ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.5120000
IP40	5/3A	125/250 VAC	non-illuminated	Alu green ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.5120061
IP40	5/3A	125/250 VAC	non-illuminated	Alu green ,yes	Stainless Steel ,yes	MSM 22 LE	1241.6632.5120065
IP40	100 mA	30 VDC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI blue	1241.6633.1114000
IP40	5/3A	125/250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI blue	1241.6633.1124000
IP40	10 A	250 VAC	Point Illumination, blue	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI blue	1241.6633.1134000
IP40	100 mA	30 VDC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI red	1241.6633.1111000
IP40	5/3A	125/250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI red	1241.6633.1121000
IP40	10 A	250 VAC	Point Illumination, red	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI red	1241.6633.1131000
IP40	100 mA	30 VDC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI green	1241.6633.1112000
IP40	5/3A	125/250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI green	1241.6633.1122000
IP40	10 A	250 VAC	Point Illumination, green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI green	1241.6633.1132000
IP40	5/3A	125/250 VAC	Point Illumination, red / green	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 PI red / green	1241.6633.1126000

IP Switching Unit	Switching Current	Switching Voltage	Illumination, LED	Housing Material, Torsion Protection	Actuator Material, Tor- sion Protection	Config. Code	Order Number
	[A]	[VAC/ VDC]					
IP40	100 mA	30 VDC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 22 Pcs	1241.6631.1110000
IP40	5/3A	125/250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 22 Pcs	1241.6631.1120000
IP40	10 A	250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 22 Pcs	1241.6631.1130000
IP67	6 A	250 VAC	non-illuminated	Stainless Steel ,no	Stainless Steel ,no	MSM 22 Pcs	1241.6631.1180000
IP40	100 mA	30 VDC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI blue	1241.6634.1114000
IP40	5/3A	125/250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI blue	1241.6634.1124000
IP67	6 A	250 VAC	RI dotted, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI blue	1241.6634.1184000
IP40	100 mA	30 VDC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI blue	3-108-961
IP40	5/3A	125/250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI blue	3-108-972
IP40	10 A	250 VAC	RI homogeneous, blue, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI blue	3-108-973
IP40	5/3A	125/250 VAC	RI dotted, white, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI white	1241.6634.1125000
IP40	100 mA	30 VDC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	1241.6634.1111000
IP40	5/3A	125/250 VAC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	1241.6634.1121000
IP40	10 A	250 VAC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	1241.6634.1131000
IP67	6 A	250 VAC	RI dotted, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	1241.6634.1181000
IP40	100 mA	30 VDC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	3-108-955
IP40	5/3A	125/250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	3-108-956
IP40	10 A	250 VAC	RI homogeneous, red, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI red	3-108-957
IP40	100 mA	30 VDC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	1241.6634.1112000
IP40	5/3A	125/250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	1241.6634.1122000
IP40	10 A	250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	1241.6634.1132000
IP67	6 A	250 VAC	RI dotted, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	1241.6634.1182000
IP40	100 mA	30 VDC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	3-108-958
IP40	5/3A	125/250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	3-108-959
IP40	10 A	250 VAC	RI homogeneous, green, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI green	3-108-960
IP40	100 mA	30 VDC	RI dotted, yellow, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI yellow	1241.6634.1113000
IP40	5/3A	125/250 VAC	RI dotted, yellow, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI yellow	1241.6634.1123000
IP40	100 mA	30 VDC	RI homogeneous, RGB, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI RGB	3-102-773
IP40	10 A	250 VAC	RI homogeneous, RGB, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI RGB	3-102-784
IP67	100 mA	250 VAC	RI homogeneous, RGB, 24 VDC	Stainless Steel ,yes	Stainless Steel ,yes	MSM 22 RI RGB	3-109-580

IP-Protection: IP67 from front side to contact area, Micro-Switch is available in versions IP40 or IP67, see Technical Data Micro-Switch

Variants with 6 A micro switch have IP67

The MOQ for standard laser lettering on standard variants is a packing unit.

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

Customer-specific versions available on request.

Special materials for use in salt and chlorinated environment on request.

The nut with gasket and micro switch are enclosed in the box.

Most Popular.

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

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

Packaging unit

10 in box with insert or packed in air cushion bags



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

Accessories





MSM Cover Protection cover for MSM 19 and MSM 22



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