# smarterion

smart CONN

DATA SHEET

smartLED U2822

An elegant, high-quality LED light line made from anodised aluminium that meets the highest demands. Thanks to its variable length, the light line can be used as a single luminaire or as a strip light. As a result, uniform illumination is ensured from end to end. The mounting brackets are concealed.

- · Anodised aluminium channel
- · Definable cable tap
- · Opal PC cover for completely uniform illumination
- · Die-cast aluminium end caps, painted in profile colour, no visible screws
- · Service life: 50 000 h LM-80 > 50 000 h
- · Light colors: 2700 K / 3000 K / 4000 K / 6500 K / TW / RGB(W)
- · Control gear to be placed externally
- · Halogen-free connection cable
- · Optional: RAL or NCS powder coating
- · Concealed mounting brackets

1.161 smartLED U2822

28 mm

22 mm
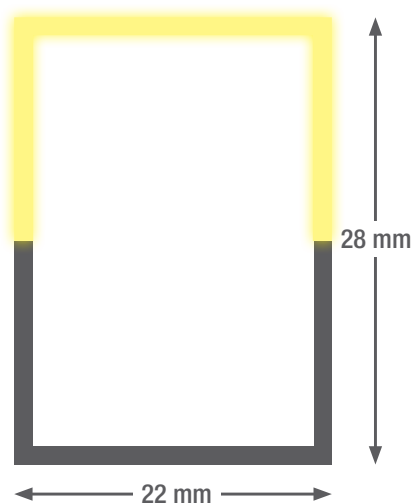
Profile length up to 5 m one-piece, greater than 5 m multi-piece

C0 - C180   C90 - C270
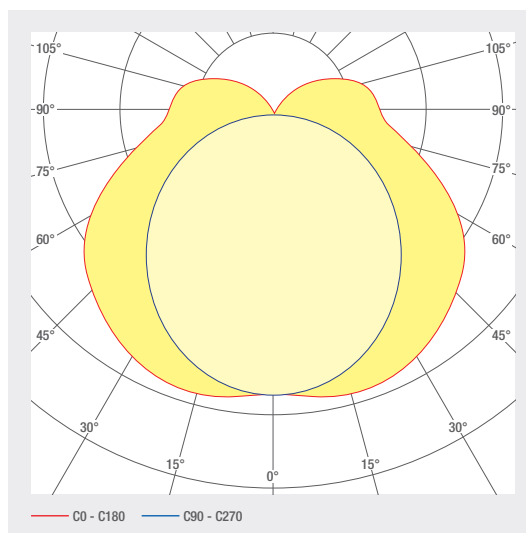
ART. NO.	DESIGNATION	CHARACTERISTICS							
1005969	smartLED U2822	24 V DC INPUT	25.8 W/M	DIFFUSED BEAM	RGB	120 LED/M			
1005971	smartLED U2822	24 V DC INPUT	19.2 W/M	DIFFUSED BEAM	RGBNW 4000 K	98 LED/M			
1005970	smartLED U2822	24 V DC INPUT	19.2 W/M	DIFFUSED BEAM	RGBW 6000 K	98 LED/M			
1005972	smartLED U2822	24 V DC INPUT	19.2 W/M	DIFFUSED BEAM	RGBWW 3000 K	98 LED/M			
1005949	smartLED U2822	24 V DC INPUT	12 W/M	DIFFUSED BEAM	2700 K CRI>80	133 LED/M	1346 LM/M	D (A-G)	SDCM3
1005958	smartLED U2822	24 V DC INPUT	22 W/M	DIFFUSED BEAM	2700 K CRI>80	133 LED/M	2547 LM/M	D (A-G)	SDCM3
1005955	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	2700 K CRI>80	133 LED/M	2040 LM/M	D (A-G)	SDCM3
1005953	smartLED U2822	24 V DC INPUT	7 W/M	DIFFUSED BEAM	2700 K CRI>80	133 LED/M	841 LM/M	D (A-G)	SDCM3
1005956	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	3000 K CRI>80	133 LED/M	2114 LM/M	D (A-G)	SDCM3
1005950	smartLED U2822	24 V DC INPUT	7 W/M	DIFFUSED BEAM	3000 K CRI>80	133 LED/M	872 LM/M	D (A-G)	SDCM3
1005959	smartLED U2822	24 V DC INPUT	22 W/M	DIFFUSED BEAM	3000 K CRI>80	133 LED/M	2639 LM/M	D (A-G)	SDCM3
1005952	smartLED U2822	24 V DC INPUT	12 W/M	DIFFUSED BEAM	3000 K CRI>80	133 LED/M	1395 LM/M	D (A-G)	SDCM3
1005960	smartLED U2822	24 V DC INPUT	22 W/M	DIFFUSED BEAM	4000 K CRI>80	133 LED/M	2804 LM/M	D (A-G)	SDCM3
1005957	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	4000 K CRI>80	133 LED/M	2246 LM/M	D (A-G)	SDCM3
1005954	smartLED U2822	24 V DC INPUT	7 W/M	DIFFUSED BEAM	4000 K CRI>80	133 LED/M	926 LM/M	D (A-G)	SDCM3
1005951	smartLED U2822	24 V DC INPUT	12 W/M	DIFFUSED BEAM	4000 K CRI>80	133 LED/M	1481 LM/M	D (A-G)	SDCM3
1006432	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	2700 - 6500 K CRI>80	120 LED/M	1610 LM/M	E (A-G)	SDCM3
1005937	smartLED U2822	24 V DC INPUT	12 W/M	DIFFUSED BEAM	2700 K CRI>90	133 LED/M	1160 LM/M	E (A-G)	SDCM3
1005943	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	2700 K CRI>90	133 LED/M	1759 LM/M	E (A-G)	SDCM3
1005940	smartLED U2822	24 V DC INPUT	7 W/M	DIFFUSED BEAM	2700 K CRI>90	133 LED/M	725 LM/M	E (A-G)	SDCM3
1005946	smartLED U2822	24 V DC INPUT	22 W/M	DIFFUSED BEAM	2700 K CRI>90	133 LED/M	2196 LM/M	E (A-G)	SDCM3
1005947	smartLED U2822	24 V DC INPUT	22 W/M	DIFFUSED BEAM	3000 K CRI>90	133 LED/M	2251 LM/M	E (A-G)	SDCM3
1005944	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	3000 K CRI>90	133 LED/M	1803 LM/M	E (A-G)	SDCM3
1005938	smartLED U2822	24 V DC INPUT	12 W/M	DIFFUSED BEAM	3000 K CRI>90	133 LED/M	1190 LM/M	E (A-G)	SDCM3
1005941	smartLED U2822	24 V DC INPUT	7 W/M	DIFFUSED BEAM	3000 K CRI>90	133 LED/M	744 LM/M	E (A-G)	SDCM3
1005948	smartLED U2822	24 V DC INPUT	22 W/M	DIFFUSED BEAM	4000 K CRI>90	133 LED/M	2357 LM/M	E (A-G)	SDCM3
1005945	smartLED U2822	24 V DC INPUT	18 W/M	DIFFUSED BEAM	4000 K CRI>90	133 LED/M	1888 LM/M	E (A-G)	SDCM3

ART. NO.	DESIGNATION	CHARACTERISTICS							
1005939	smartLED U2822	24 V DC INPUT	12 W/M	DIFFUSED BEAM	4000 K CRI>90	133 LED/M	1246 LM/M	E A↑G	SDCM3
1005942	smartLED U2822	24 V DC INPUT	7 W/M	DIFFUSED BEAM	4000 K CRI>90	133 LED/M	779 LM/M	E A↑G	SDCM3

Lighting design

RELUX®

click on the Relux icon to access our lighting design data directly

Accessories
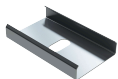
Art. No. 3100020	Art. No. 1006880	Art. No. 1005713	Art. No. 1005874	Art. No. 1006313

Art. No.
1006314

ART. NO.	DESIGNATION
2002091	Transparent encapsulation, IP67
2002095	IP65 protective coating
3100020	
1006880	smartCONN connection connector straight
1005713	smartCONN connector to power supply 90°
1005874	smartCONN flat conductor through-wiring
1006313	smartCONN linear connector
1006314	smartCONN edge connector 90°

Technical data

Storage temperature	-25 ... +50 °C
Max. surface temperature	65 °C
Shock rating	IK03
Protection type (IP)	IP20
Ambient temperature ta	25 °C
Service life L80B10 (h) @ ta = 25°C	50000 h

kitchen ground floor ⑦ ⑧ ⑨
⑤ smartLED 1919 45° / 11W/m / 2700K / IP20
④ Art. Nr. : 1000881   ⑥ **24V**
③ Länge: 2800 mm   ②
  Länge tot: 11000 mm   **1/2**
⑪ 209583-01010100
⑩ smaterion ag, Zeughausstrasse 10, 8887 Mels

① Position, e.g. kitchen
② Profile part for multi-part lengths, e.g. ¹⁄₃, ²⁄₃, ³⁄₃
③ Length profile
④ Item number
⑤ Profile type, e.g. smartLED 1216
⑥ Voltage, e.g. 24 V
⑦ Power, e.g. 23W/m
⑧ Color temperature, e.g. 3000K
⑨ IP protection, e.g. IP20
⑩ Manufacturer address
⑪ QR code with unique identification ID

Electrical connection

smartCONN System
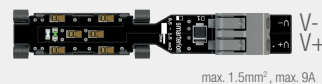
max. 1.5mm², max. 9A

1: V+
2: V-

1: V+
2: WW(-)
3: CW(-)

1: V+   3: G(-)
2: B(-) 4: R(-)

1: V+   4: R(-)
2: B(-) 5: W(-)
3: G(-)

smartWIRE

V- V+

smartWIRE

V+ CW WW

smartWIRE

B V+

R G

smartWIRE

W V+

B R G

0.25 – 0.75 mm2

0.25 – 0.75 mm2
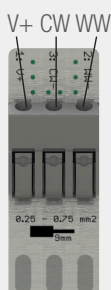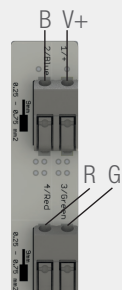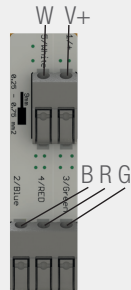
CLICK
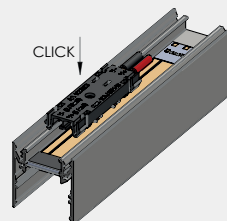
Dimensions

Assembly instructions

Step 1

Step 2

CLICK

When fitting the clamp, make sure that it can still be turned slightly, otherwise it can cause cracking noises due to thermal expansion.

Cleaning and care

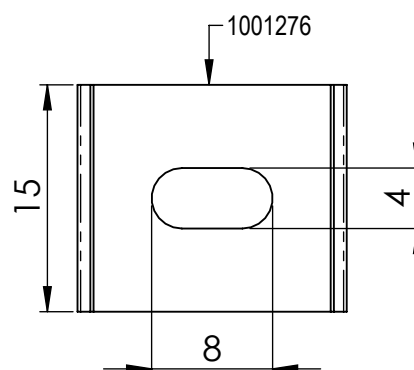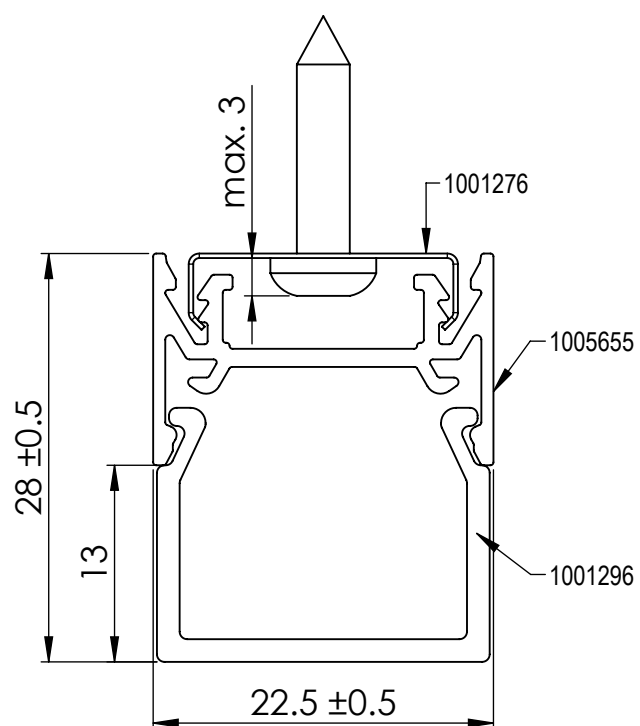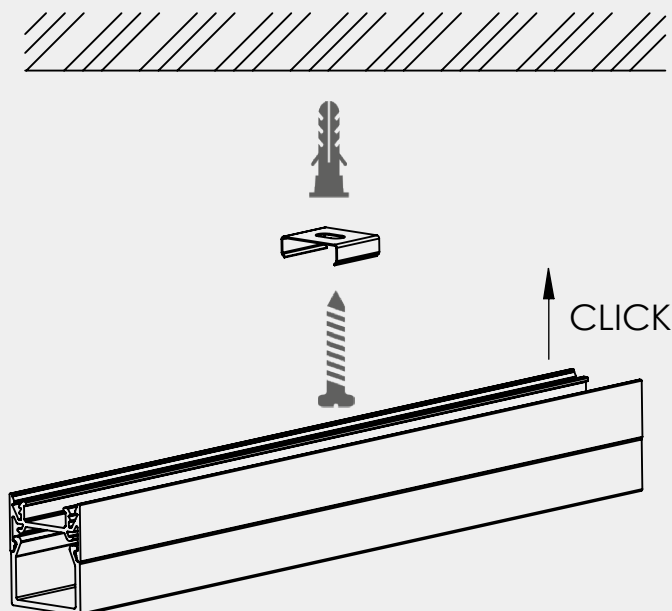Wipe the luminaire clean using a damp, lint-free cloth. Do not scrub! If heavily soiled, wipe clean with a mild solution of warm soapy water (microfibre cloth and washing-up liquid). Do not use a scouring agent. Do not rub the luminaire dry, as the resulting static may damage the electronic components beyond repair.

Warnings

The equipment may only be installed and put into service by authorised technical personnel (electrical fitters). The luminaire is designed solely for lighting applications and is to be installed according to the installation regulations. Any other form of use or installation is considered to be improper. Failure to comply with the installation instructions can damage the luminaire beyond repair. Return to the manufacturer if any defects are identified. The installation instructions must be retained for future reference. Subject to technical changes. Not to be installed on a wet or conductive substrate. The luminaire is only to be installed, put into service or modified in any way by authorised skilled personnel (a qualified electrician). National installation regulations must be observed. Before any work is performed on the luminaire, it must be disconnected from mains. Hot plug-in is not an option and may cause damage to the luminaire! The manufacturer is not liable for damage resulting from improper/faulty installation or operation, or from unauthorised modifications to the luminaire. The light source contained in this luminaire is only to be replaced by the manufacturer, a service technician authorised by the manufacturer or a similarly qualified person. Caution, risk of electric shock! In the event of questions or queries, please contact the manufacturer.
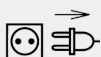
Disconnect the luminaire from the power supply.

Caution, risk of electric shock!

DISPOSAL
The packaging must be recycled via the DSD (Green Dot) scheme or its equivalent. Dispose of the packaging correctly sorted. Waste electrical and electronic equipment must never be disposed of together with household waste. In accordance with the EU directives, the device must be disposed of in an orderly manner at the end of its service life. This means having the materials contained in the device recycled to avoid polluting the environment. Take the waste equipment to a collection point for electrical and electronic waste or to a recycling depot. For further information, please contact your local waste disposal service or your local authority.

The LED board(s) can only be replaced by smarterion as the manufacturer. Please do not attempt to replace the components yourself, as this will void the warranty and CE conformity.

IP20   Protected against ingress of solid foreign objects with a diameter of more than 12.5 mm.

Class lll luminaires for operation at safety extra-low voltage (SELV)