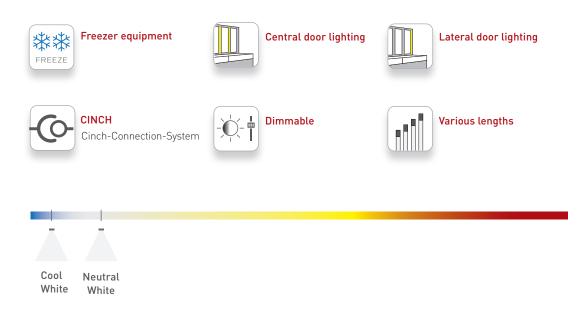
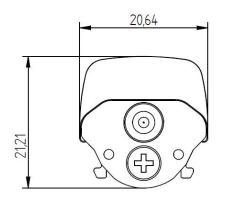


DOOR FREEZER | Bright Line



1

DOOR FREEZER | Bright Line



III PRODUCT DESCRIPTION

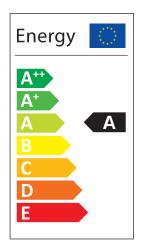
- High efficient, extra slim lighting for freezer equipment doors
- Available in a variety of light colours and can be matched to specific food types
- Ready-to-connect solution available, thanks to our Cinch Connection System
- High operational performance due to directional lighting, integrated heat removal and highly efficient LEDs
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- Safe-use operation due safety extra-low voltage (SELV)
- Simple installation with application of fixing plates
- Heat sink profile made of anodised, extruded aluminium
- LED modules protected against moisture & dust by Conformal coating
- End caps made of PBT
- Linear lenses made of PMMA
- Dimming capability

TECHNICAL DATA

Supply voltage	24 VDC
Ambient temperature ta	-30 +30 °C
Max. surface temperature on profile tc	60 °C
Type of protection	IP44
Protection class	
Risk group (EN 62471:2008)	1

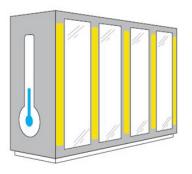


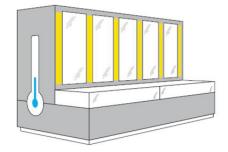
ENERGY CLASS



2

APPLICATION





DOOR FREEZER | Bright Line

III TECHNICAL DATA | ORDER DATA

Art. Nr.	Туре	Colour	No. of modules	Luminous flux (lm)	Power (W)	CRI
91420188	Bright-Line Door Freezer 910mm, 5000K CRI90, 9W, SED8DY C	Cool White	6	920	9,0	≥90
91420194	Bright-Line Door Freezer 910mm, 5000K CRI90, 9W, SED8DY E	Cool White	6	720	9,0	≥90
91420189	Bright-Line Door Freezer 910mm, 4000K CRI90, 9W, SED8DY C	Neutral White	6	950	9,0	≥90
91420196	Bright-Line Door Freezer 910mm, 4000K CRI90, 9W, SED8DY E	Neutral White	6	750	9,0	≥90
91420190	Bright-Line Door Freezer 1500mm, 5000K CRI90, 15W, SED8DY C	Cool White	10	1520	15,0	≥90
91420198	Bright-Line Door Freezer 1500mm, 5000K CRI90, 15W, SED8DY E	Cool White	10	1190	15,0	≥90
91420191	Bright-Line Door Freezer 1500mm, 4000K CRI90, 15W, SED8DY C	Neutral White	10	1590	15,0	≥90
91420200	Bright-Line Door Freezer 1500mm, 4000K CRI90, 15W, SED8DY E	Neutral White	10	1240	15,0	≥90
91420192	Bright-Line Door Freezer 1650mm, 5000K CRI90, 17W, SED8DY C	Cool White	11	1670	16,5	≥90
91420202	Bright-Line Door Freezer 1650mm, 5000K CRI90, 17W, SED8DY E	Cool White	11	1310	16,5	≥90
91420193	Bright-Line Door Freezer 1650mm, 4000K CRI90, 17W, SED8DY C	Neutral White	11	1750	16,5	≥90
91420204	Bright-Line Door Freezer 1650mm, 4000K CRI90, 17W, SED8DY E	Neutral White	11	1360	16,5	≥90

Packaging: 12 pieces/carton, 360 pieces/pallet

- All typical values for Ta=25°C +/- 2°C, setting time =200ms
- Luminous flux min. value = typ. value 20%
- Tolerance mechanical dimensions +/- 1mm
- Tolerance electrical data +/- 15%
- Tolerance optical data +/-10%

III CONVERTER

3

Output voltage	24 VDC +10 %				
Power converter	= sum of the typical individual power of the light engines + 20%				
Chain length (luminaires)	120mA: max 21 modules 100mA: max 24 modules 80mA: max 28 modules 60mA: max 33 modules 40mA: max 40 modules				

Selection of the operating device/protective functions

The operating device protects the modules against overvoltage, overcurrent, overload and short circuits. The device must comply with the relevant standards for safe operation in freezer and refrigeration equipment. Power supply units must ensure the following protective measures:

- SELV
- Short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against environmental influences

III ACCESSORY - MOUNT | FIXING PLATES

Туре	METAL 0°
Art. Nr.	88167376



DOOR FREEZER | Bright Line

III CINCH | FEEDER



• Feeder cable for connecting a linear LED engine to a converter via Cinch

III ORDERING DATA - Feeder

Length	Weight	Туре	Art. Nr.
3.000mm	85g	LED Feeder straight CINCH 3000	89601602
4.000mm	102g	LED Feeder angled CINCH 4000	89601603

III CINCH | BRIDGE



• Bridge for connecting two linear LED engines via Cinch

III ORDERING DATA – Bridge

Length	Weight	Туре	Art. Nr.
120 mm	6g	LED Bridge straight CINCH 120	89601604
RoHS			

III CINCH | DIRECT CONNECTOR



• Direct Connection of two linear LED engines via Cinch

III ORDERING DATA - Direct Connector

Length	Weight	Туре	Art. Nr.
4,5mm	80g	LED Bridge CINCH direct connector (100 pcs per pack)	89601606
RoHS			

III CINCH | PROTECTION PLUG



• Protection Plug for Cinch Endcaps on LED-Luminaires

III ORDERING DATA – Protection Plug

Туре	Art. Nr.
LED PROTECTION PLUG CINCH black (100 pcs per pack)	88167416
RoHS	

IL CINCH | SEALING RING

4



• Additional sealing ring for connectors at Feeder, Bridge & Direct Connector

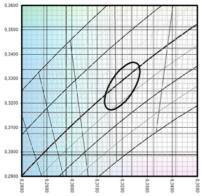
III BESTELLDATEN – End Cap

Туре	Art. Nr.
LED SEALING RING CINCH black (100 pcs per pack)	88167417
RoHS	

DOOR FREEZER | Bright Line

III COORDINATES AND TOLERANCES ACCORDING TO CIE 1964 - DATA REFERS ONLY TO LED MODULES WITHOUT COVER

Cool White

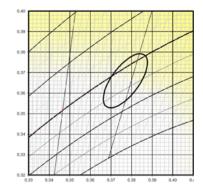


CIE coordinates Cool White 4900K уO хÛ Centre 0.3478 0.3535

MacAdam Ellipse: 3SDCM

Suitable, e.g., for frozen products and fish

Neutral White



CIE coordinates Neutral White 3950K хO уO 0.3770 0.3660 Centre MacAdam Ellipse: 3SDCM

Suitable, e.g., for dairy products and frozen products

III COLOUR KEY

Code	CW	NW	WW	PC	BP	РМ
Colour	Cool White	Neutral White	Warm White	Pasta & Cheese	Bread & Pastries	Meat & Deli
ССТ	5000K	4000K	3000K	2700K	2400K	special colour

III LIFETIME

5

50.000h (L70 B10)

III THERMAL BEHAVIOUR

Operating temperature (operation, no defects)	ta	-30 +30 °C
Storage temperature	ts	-30 +60 °C
Temperature cooling profile ¹²	tc	-30 +60 °C

¹ Values apply to operation at 100% output, natural convection.

2 If the maximum temperature limits are exceeded, the lifetime of the module will be greatly reduced or the module may be destroyed. The tc point temperature at the profile of the light engine should be measured in the thermally stable state and under operating conditions by means of a temperature sensor or temperaturesensitive sticker (available for example from conrad.com or rs-components.com) in accordance with EN60598-1. The entire profile can be used as the tc point.

STANDARDS

- EN 60598-1
- EN 60598-2-1
- EN 62031
- EN 62/71
- EN 60335-2-89 ANNEX BB



Note

- Installation should only be conducted by a licensed electrician.
- Reversing the polarity can damage the product!
- Make sure the converter has been switched off prior to connecting the light engine. If this is not observed, the light engine may be damaged!
- Connection or operation is only permitted when using the specified converters. Higher voltages result in damage to or failure of the light engine.
- The user is responsible for correct selection of illumination intensity. Excessive illumination intensity may lead to greying or colour changes of displayed products.