

IP20 

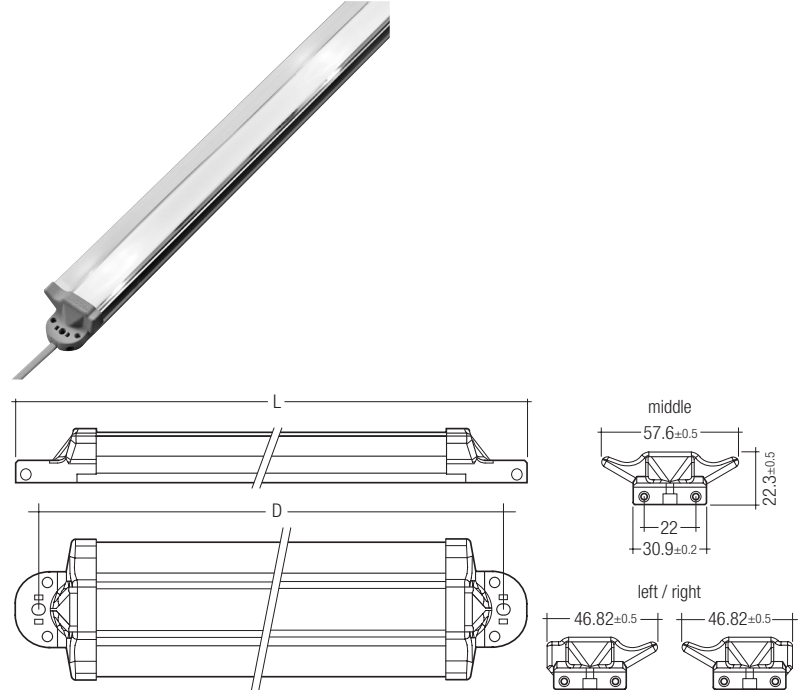
TALEXengine COOL door TALEXengine COOL

Product description

- Chillers with doors in the food industry
- Available in different light colours and wattages
- Complete solution with standard cable
- Connecting cable: H03VVH, white, length: 1 m
- Cross-section of connecting cable: 2 x 0.75 mm²
- High efficiency thanks to directional lighting, integrated heat removal and highly efficient LEDs
- Optimum product illumination thanks to a combination of COB LEDs and optics
- Safety extra low voltage (SELV)
- Simple mounting with end cap and installation aid (double-sided adhesive tape)
- Cooling section made of anodised, extruded aluminium
- End caps made of PBT
- Linear lenses made of PMMA

Technical data

Supply current DC	700 mA
Ambient temperature ta	-30 ... +30 °C
Max. surface temperature on profile tc	65 °C
Type of protection	IP20
Protection class	III



Ordering data

Position	Length L	Colour	Type	Article number
Centre	1,700 mm	neutral white	LED LE1700 12P211-4 NW700mA-SE2 CO Z206C	89601174
Left	1,700 mm	neutral white	LED LE1700 7P211-4 NW700mA-SE2 CO Z206L	89601175
Right	1,700 mm	neutral white	LED LE1700 7P211-4 NW700mA-SE2 CO Z206R	89601176
Centre	1,500 mm	neutral white	LED LE1500 12P211-4 NW700mA-SE2 CO Z206C	89601177
Left	1,500 mm	neutral white	LED LE1500 7P211-4 NW700mA-SE2 CO Z206L	89601178
Right	1,500 mm	neutral white	LED LE1500 7P211-4 NW700mA-SE2 CO Z206R	89601179
Centre	1,700 mm	cool meat +	LED LE1700 12P211-4 CM+700mA-SE2 CO Z206C	89601183
Left	1,700 mm	cool meat +	LED LE1700 7P211-4 CM+700mA-SE2 CO Z206L	89601184
Right	1,700 mm	cool meat +	LED LE1700 7P211-4 CM+700mA-SE2 CO Z206R	89601185
Centre	1,500 mm	cool meat +	LED LE1500 12P211-4 CM+700mA-SE2 CO Z206C	89601186
Left	1,500 mm	cool meat +	LED LE1500 7P211-4 CM+700mA-SE2 CO Z206L	89601187
Right	1,500 mm	cool meat +	LED LE1500 7P211-4 CM+700mA-SE2 CO Z206R	89601188

Packaging: 10 pieces/carton



Standards, page 3

Colour temperatures and tolerances, page 5

Specific technical data

Type	Hole spacing D	Typ. luminous flux ^① ^②	Colour rendering index CRI/Rf ^③	Power ^④
LED LE1700 12P211-4 NW700mA-SE2 CO Z206C	1,688 mm	1,100 lm	80	29.4 W
LED LE1700 7P211-4 NW700mA-SE2 CO Z206L	1,688 mm	700 lm	80	17.2 W
LED LE1700 7P211-4 NW700mA-SE2 CO Z206R	1,688 mm	700 lm	80	17.2 W
LED LE1500 12P211-4 NW700mA-SE2 CO Z206C	1,488 mm	1,100 lm	80	29.4 W
LED LE1500 7P211-4 NW700mA-SE2 CO Z206L	1,488 mm	700 lm	80	17.2 W
LED LE1500 7P211-4 NW700mA-SE2 CO Z206R	1,488 mm	700 lm	80	17.2 W
LED LE1700 12P211-4 CM+700mA-SE2 CO Z206C	1,688 mm	1,070 lm	80	29.4 W
LED LE1700 7P211-4 CM+700mA-SE2 CO Z206L	1,688 mm	670 lm	80	17.2 W
LED LE1700 7P211-4 CM+700mA-SE2 CO Z206R	1,688 mm	670 lm	80	17.2 W
LED LE1500 12P211-4 CM+700mA-SE2 CO Z206C	1,488 mm	1,070 lm	80	29.4 W
LED LE1500 7P211-4 CM+700mA-SE2 CO Z206L	1,488 mm	670 lm	80	17.2 W
LED LE1500 7P211-4 CM+700mA-SE2 CO Z206R	1,488 mm	670 lm	80	17.2 W

^① Tolerance range for optical data: ±15 %.

^② Luminous flux at ta = 0 °C.

^③ Rf (cool meat): specific reflection index for illumination of meat and meat products according to standard DIN 10504.

^④ Tolerance range for electrical data: ±15 %.

Converters matrix – TALEXengine COOL door, constant current

		REMOTE LCI					
Type		LCI 015/0350 E020 120-240V	LCI 030/0700 E020 120-240V	LCCI 016/0350 B020 220-240V	LCCI 016/0700 B020 220-240V	LCAI 015/0350 A020 one4all 220-240V	LCAI 030/0700 A120 one4all 220-240V
Art. no.		24166312	24166314	86459210	86459212	86458899	86458900
Type	Art. no.	Assignable converters					
LED LE1700 12P211-4 NW700mA-SE2 CO Z206C	89601174		◦	•			
LED LE1700 7P211-4 NW700mA-SE2 CO Z206L	89601175	•	•	•		•	•
LED LE1700 7P211-4 NW700mA-SE2 CO Z206R	89601175	•	•	•		•	•
LED LE1500 12P211-4 NW700mA-SE2 CO Z206C	89601177	•	◦	•		•	•
LED LE1500 7P211-4 NW700mA-SE2 CO Z206L	89601178			•	•	•	•
LED LE1500 7P211-4 NW700mA-SE2 CO Z206R	89601179			•	•	•	•
LED LE1700 12P211-4 CM+700mA-SE2 CO Z206C	89601183		◦	•			
LED LE1700 7P211-4 CM+700mA-SE2 CO Z206L	89601184	•	•	•		•	•
LED LE1700 7P211-4 CM+700mA-SE2 CO Z206R	89601185	•	•	•		•	•
LED LE1500 12P211-4 CM+700mA-SE2 CO Z206C	89601186	•	◦	•		•	•
LED LE1500 7P211-4 CM+700mA-SE2 CO Z206L	89601187			•	•	•	•
LED LE1500 7P211-4 CM+700mA-SE2 CO Z206R	89601188			•	•	•	•

◦ = For suitable converters please contact Tridonic Customer Service.

Standards

- EN 60598-1
- EN 60598-2-1
- EN 62031
- EN 62471

The product meets the “independent LED module“ classification according to EN 62031.

Note



- There is no provision for chaining multiple TALEXengine COOL door units
- The converter must be switched off before connecting the TALEXengine COOL door. This can damage the TALEXengine COOL door!

Electrical supply

TALEXengine COOL door modules from Tridonic are not protected against overvoltages, overcurrents, overloads or short-circuit currents. Safe and reliable operation can only be guaranteed in conjunction with a converter which complies with the relevant standards. The use of TALEX converters from Tridonic in combination with TALEXengine COOL door guarantees the necessary protection for safe and reliable operation.

If a converter other than Tridonic TALEXconverter is used, it must provide the following protection:

- Short-circuit protection
- Overload protection
- Overtemperature protection

TALEXengine COOL door must be supplied by a constant current converter.

Operation with a constant voltage converter will lead to an irreversible damage.

The TALEXengine COOL door is equipped with reverse voltage protection up to 50 V.

Thermal behaviour

operation temperature (operation, no defects)	t_a	-30 → +30 °C
storage temperature	t_s	-30 → +60 °C
max. temperature cooling profile ① ②	$t_{profile}$	-30 → +65 °C

① The values apply to operation at 100 % output, natural convection

② If the maximum temperature limits are exceeded, the life of the LED will be greatly reduced or the LED may be destroyed.

The t_c point temperature on the profile of TALEXengine COOL door should be measured in the thermally stable state and under operating conditions by means of a temperature sensor or temperature-sensitive sticker (available for example from www.conrad.com, www.rs-components.com) as per EN60598-1. The backside of TALEXengine COOL door can be used as the t_c point.

Wiring

Cable: H03VVH; cross-section 2x0.75 mm²; white; length: 1.0 m

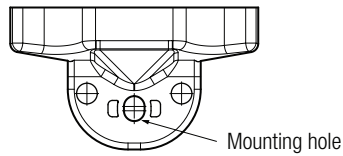
	Cord 1	Cord 2
Colour	Red	Black
Function	+	-

Lifetime

$t_{c,LED}$ temperature in °C	Luminous flux in %	Lifetime in h
25	70	47,000
	80	29,000
45	70	45,000
	80	28,000
75	70	39,000
	80	24,000

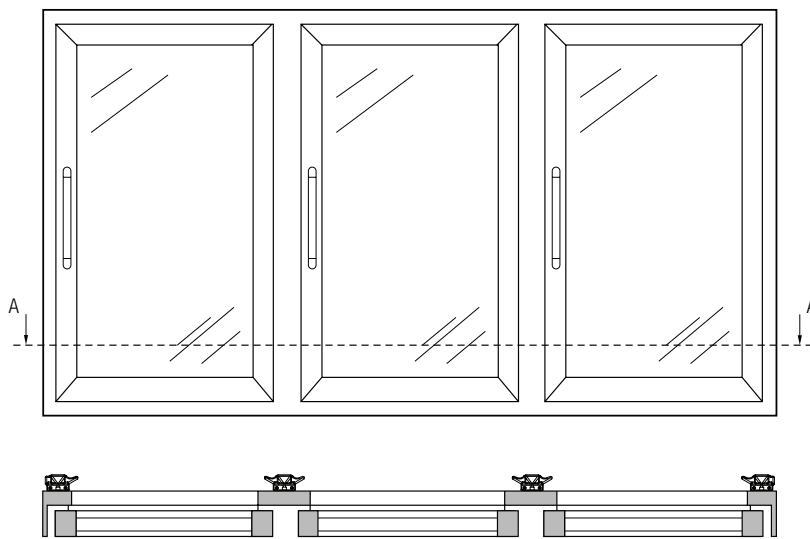
Installation of TALEXengine COOL door

- Mount with end caps.
 M4 screws can be used for the slot hole.
- Thermal conductive tapes on the back of the TALEXengine COOL door can be used as a mounting aid
- The converter must be switched off before connecting the TALEXengine COOL door. This can damage the TALEXengine COOL door!

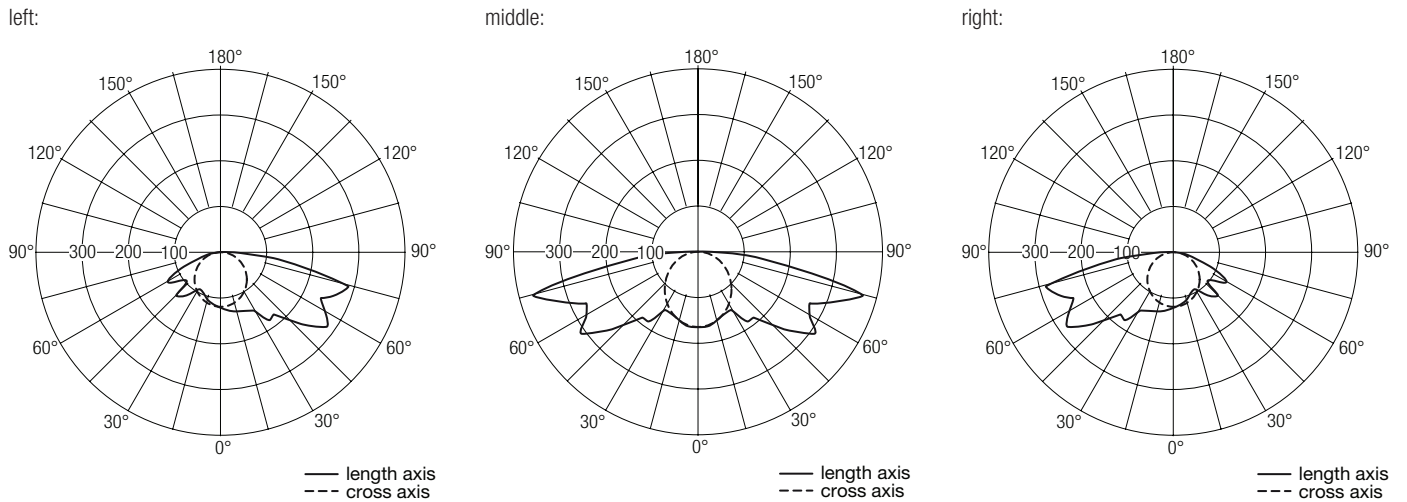


Installation situation

Exemplary of a typical installation situation:



Luminous intensity distribution TALEXengine COOL door



Coordinates and tolerances according to CIE 1964

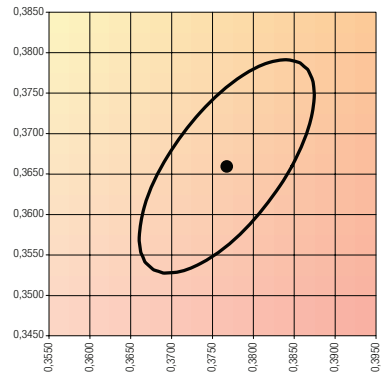
CIE coordinates:

Neutral white

	x0	y0
Centre	0.3770	0.3660

MacAdam ellipse: 5SDCM

Neutral white



CIE coordinates

Cool meat +

	x0	y0
Centre	0.3827	0.2960

MacAdam ellipse: 5SDCM

Cool meat +

