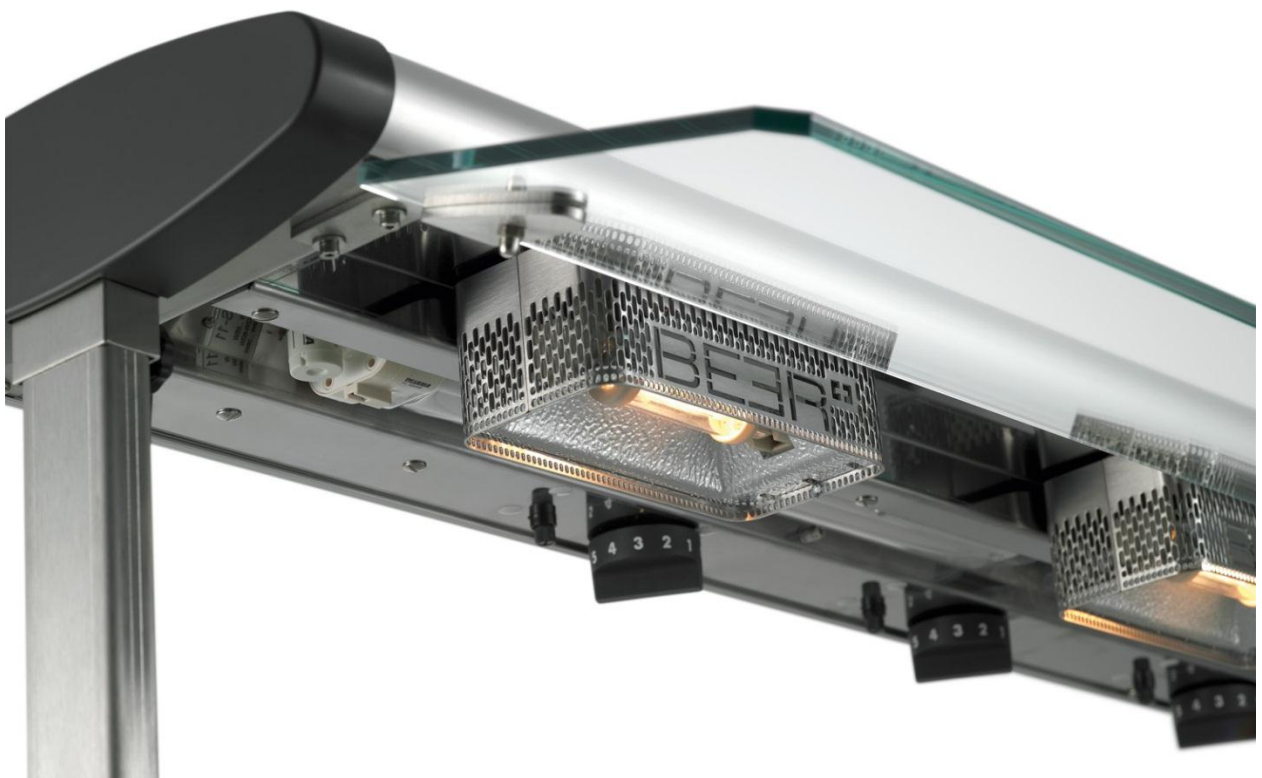


Solaris

Cold- and hot lighting channel



Operation manual
Installation & technical data

CONTENTS

**Before you switch-on your Solaris the first time,
read this instruction carefully.**

OPERATION MANUEL

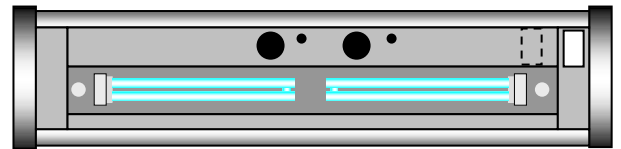
Operation manual.....	1
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1 Technical data

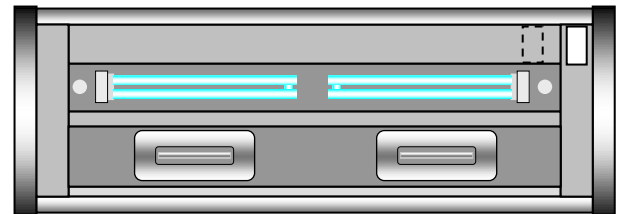
See annex

2 Dimensions

Single channel with PLL compact lamps or IR heater



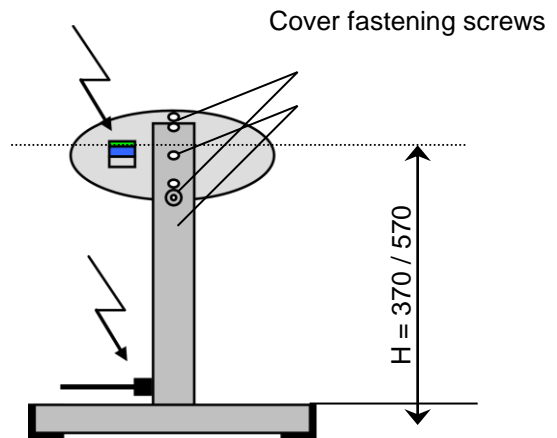
Double channel without dimmer
IR heater with PLL compact lamps



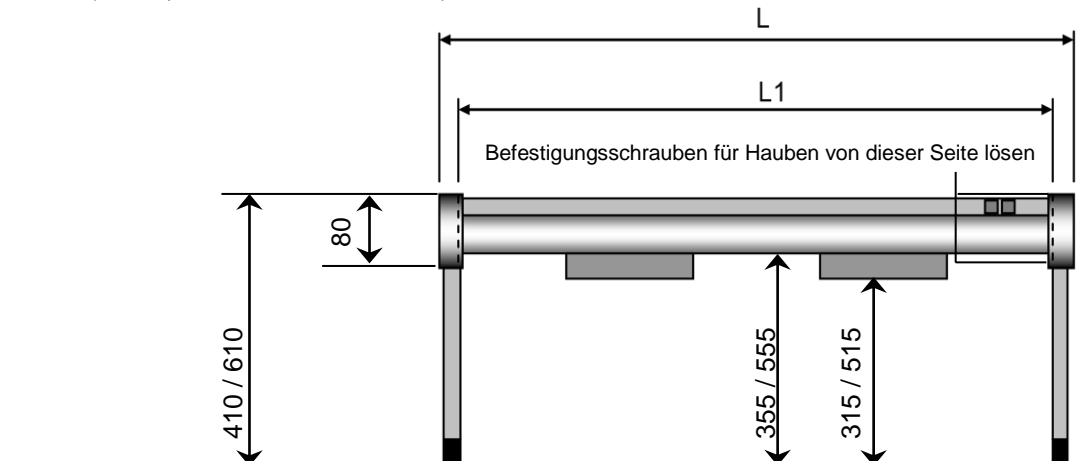
Double channel with dimmer
IR heater or IR heater with PLL compact lamps

Permanent power connection
(under right-hand cover)
(switch side)

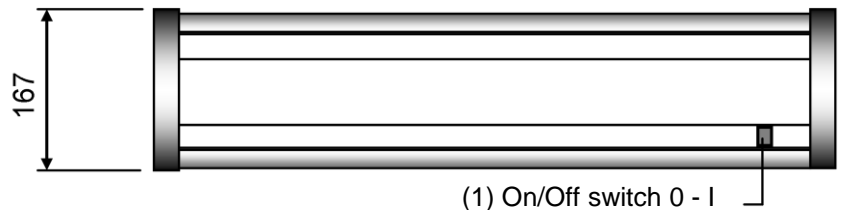
Power connection for units
with connecting cable
(switch side)



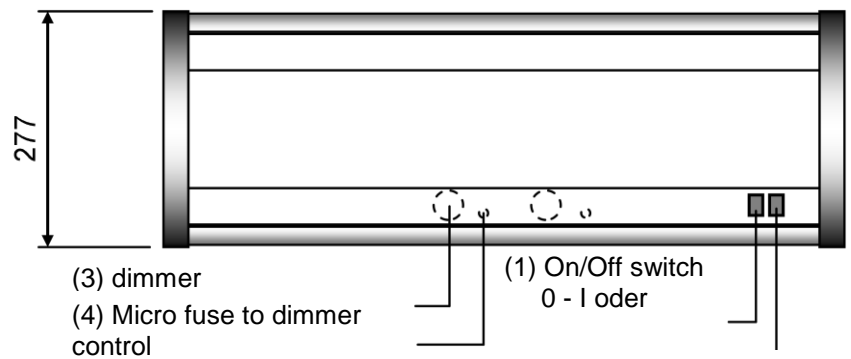
Drawings: Side view of 1-piece channel (without side cover)
2 standard heights: 370 / 570 mm
H = reference measurement (table top to channel's horizontal axis)



Single channel



Double channel



These dimensions are standard dimensions, all other dimensions are special executions and are available on request.

Number of GN	1½	2	2½	3	3½	4	4½	5	5½	6
L (mm)	598	768	938	1108	1278	1448	1618	1788	1958	2128
L1 (mm)	539	709	879	1049	1219	1389	1559	1729	1899	2069

3 Transport and installation

Transport

When transporting Solaris channels mind the fact that IR heaters and PLL compact lamps are fragile. Handle them with appropriate care.

Installation / supporting surfaces

Take care not to install channels and IR heaters above inflammable surfaces. Wood-bonded stainless steel should not be used as the chipboard may warp and detach due to exposure to heat.

Assembly of supports and sneeze screen

Supports and sneeze screen are always supplied detached. Fitting the supports and the sneeze screen to the Solaris channel is done on site. The necessary material and instructions are included in the scope of delivery.

Lateral clearance

The minimum distance to inflammable furniture or parts of the building must not fall below 50mm (2").

Danger of tipping over

of standalone appliances with sneeze screens fitted on one or both sides.

Do not lean on or rest your arms on the glass.

Do not place heavy or heat-sensitive objects or goods on top of the channel.

Use glass shelves to store light, heat-sensitive goods.

To move channels, lift and carry them, do not push them. Pull mains plug before moving.

ATTENTION

Danger of burning

Ambient temperature

Protect Solaris channels from direct heat (e.g. salamanders, ovens, grills)

Never install 2 channels one above the other.

Avoid draughts in the areas of Solaris heating channels.

4 Connection

Connection has to be done by a skilled/trained person only

Check

Check up if electrical data of mains correspond with those on the rating plate

Rating plate

The rating plate is placed on the right side under the channel.

Electrical scheme

See annex

Connection with plug

Connection to conform to IEC resp. CEI 335-1 and local regulations. Connection with plug. Fit plug conforming to nominal current to cable.

Fix connection

Main switch with necessary number of poles and a minimal contact- distance of 3mm has to be provided.

Procedure: the terminals are located underneath the right-hand cover (on the switch side). Unscrew the holding screws, remove the cover, connect the power cable and replace the cover.

Main fuse

See annex

Types of connection

See annex

5 Start up / operation manual

Danger of fire!

Before first start up remove all packing and padding material.

Operation manual

Single channels are equipped with a double-pole on/off switch (1). Depending on configuration, double channels may have 2 double-pole on/off switches (1) – both channels can be run simultaneously-, or a double-pole on/off switch (1) combined with a single-pole selector switch (channels cannot be run simultaneously – use the selector to switch on the desired element). On appliances with electronic control turn the knob (3) to the desired position (1 – 5) after switching on the channel. Cf. illustration in chapter 2 – measurements.

Danger of burning!

Heat channels with IR heater reach the operation temperature within a short time. The metal parts at these channels will become very hot!

6 Information of danger

Danger of burning!

The following parts will become very hot, when Solaris is activated and, if touched, it exists danger of burning:

- Cover of illumination bridge
- Shatter protection glass with bracket, lamp and housing.

Attention!

Procedure by lamp bursting and breakage of glass

In case of lamp bursting lamps and sneeze screen, proceed immediately as follows:

- Switch off and close counter
- Self-service counter: Avoid guests taking food contaminated with glass splinter.
- Collect and replace all plates filled with food of guests, who have been nearby when the incident happened.
- Take out all food containers of the counter. Dispose food in rubbish bin (not in bin for leftovers).
- Clean Solaris and the floor.
- Replace broken lamps or glass.
- Refill the counter
- Counter is ready for reopening.

7 Cleaning and maintenance

7.1 Cleaning

Solaris is an electrical appliance. Disconnect the unit of the mains (pull of plug switch off main switch or take off fuses).

Purifier

Use a smooth cloth and a usual, non-abrasive household cleaner.

Absolutely prohibited!

Hosing down the Solaris, using a pressure cleaner.

Cleaning under running water or in professional dish washing machine

7.2 Maintenance

When replacing lamps and heating elements please note:

PLL compact lamps

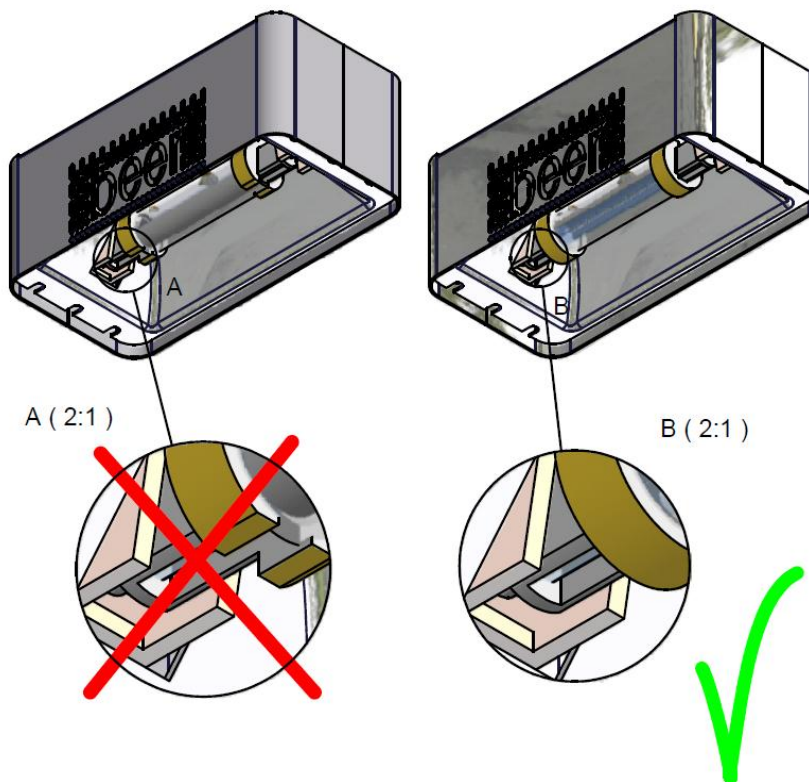
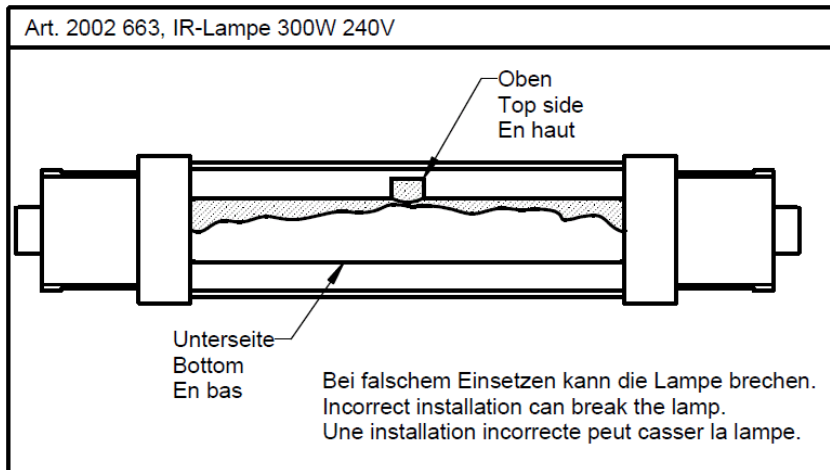
Use only lamps with identical power consumption. Lamps with other power consumption can destroy ballasts. Use only lamps with shatter proof foil.

IR heater

Use only lamps with **max. 300 Watt**. Lamps with higher power consumption become hotter. This heat can destroy the electric installation and increases the danger of burning.

Correct insertion of the infrared heater

Please insert the infrared heater exactly the way it is indicated on the drawings below.



Attention danger of burning!

8 After sales service

In case of faults on the electrical system you must contact service department. Please control feeder and fuse. Make sure you are aware of serial number and type (on power rating shield) once you call after sales service department.

United Kingdom:

**Total Equipment Servicing Limited
Crown Chambers
7 Market Place
GB-Melksham Wiltshire SN12 6ES
Phone: 0044 1225 791848**

Ireland:

**Caterline Catering Equipment Ltd.
U1, Block G
Greenogue Business Park
IE-Rathcoole Co. Dublin
Phone: 00353 1 401 90 11**

9 Annex

Solaris channel technical data

Scheme 62-E-05-401-03:

Scheme 62-E-05-401-04:

Scheme 62-E-05-401-02:

Scheme 62-E-05-401-01:

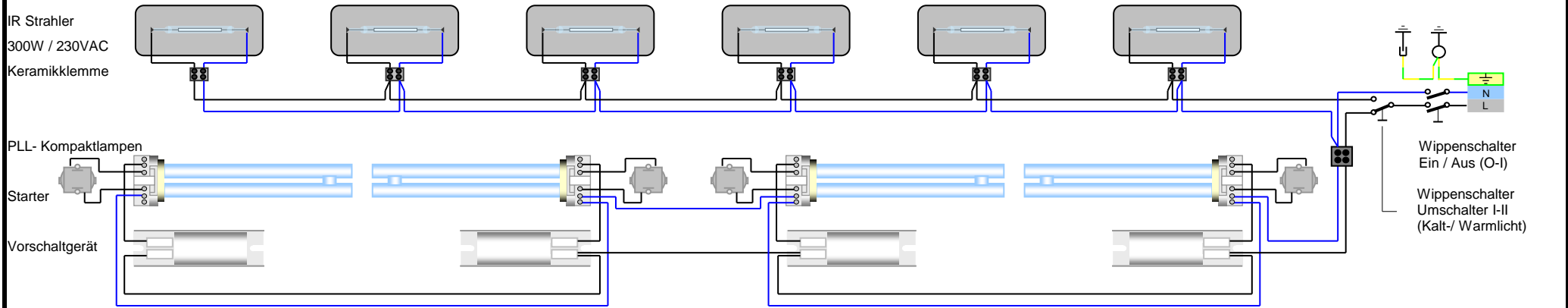
Solaris cold/warm lighting channel (without dimmer)

Solaris cold/warm lighting channel (with dimmer)

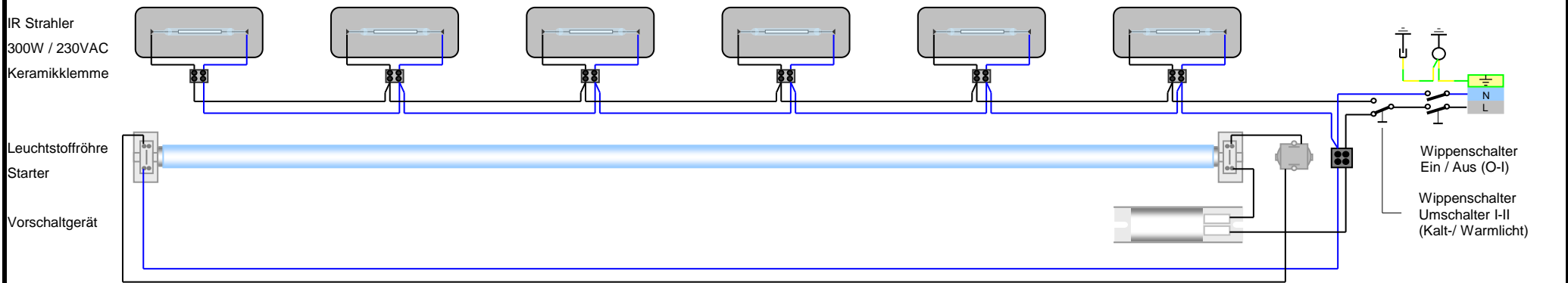
Solaris warm lighting channel

Solaris cold lighting channel

KW- Doppelkanal mit PLL- Kompaktlampen Standardmässig max. 4 Lampen/ Kanal (Für Anzahl und Lampenleistung siehe Datenblätter)



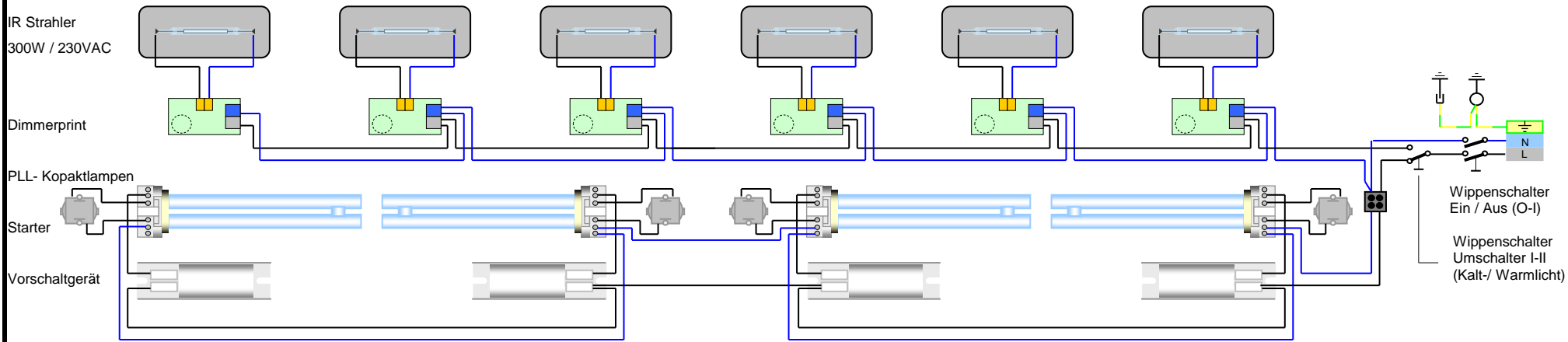
KW- Doppelkanal mit Leuchtstoff- Lampen Standardmässig 1 Lampe/ Kanal (Für Lampenleistung siehe Datenblätter)



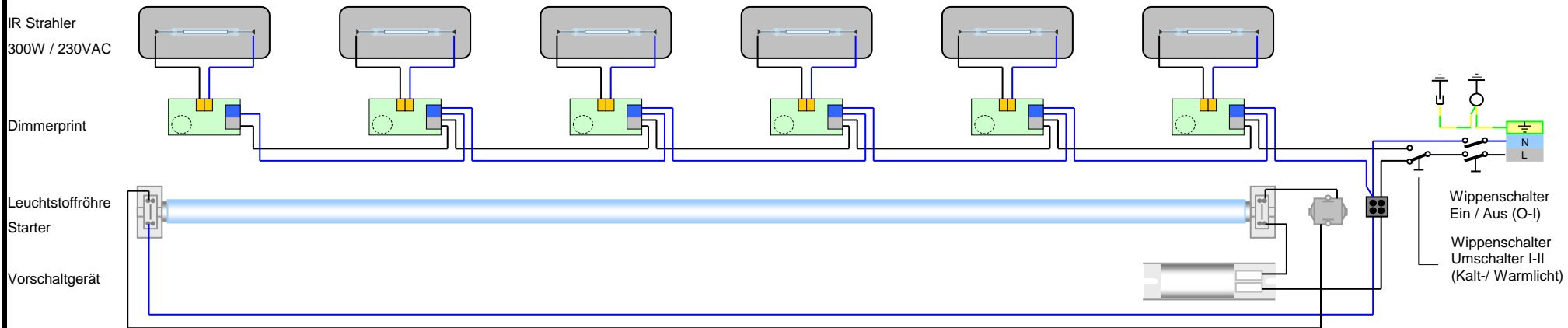
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IR Strahler	230VAC 300W	2002663	Wippschalter Ein / Aus O-I	2000413	Anschlussklemmenbock	3P 3306088
IR Strahler Fassung		2002612	Wippschalter Umsch. I - II	2000416	Anschlusskabel T12	CH 308920
Teflon- Isolationsplatte		2030335	Keramikklemmen	910297	Anschlusskabel Schuco	Exp. 308921

Leuchtstoffröhre		Vorschaltgerät		Röhren- Fassung Art.- Nr.	PLL- Kompaktl.		Lampen Fassung Art.- Nr.	Lampen Halter Art.- Nr.	Vorschaltgerät		Glimm- Starter Art.- Nr.	Starter Fassung Art.- Nr.	Gültig- keits Bereich	Serie- Nr.		Auslieferdatum	
Leistung Watt	Art.- Nr.	Typ	Art.- Nr.		Leistung Watt	Art.- Nr.			Typ	Art.- Nr.				von	bis	von	bis
15	3306221	EC 15	3306068	3306048	18	3306203	3306049	3306051	EC 18	3306070	3306071	3306052	SOLARIS- KW- Kanal (ungedimmt)55000		15.04.2005	
18	3306040	EC18	3306070		24	3306204			EC 36	3306072				Datum 28.02.2005			
30	3306237	EC 30	3306069		36	3306205			PC 1/80	3306074				Visum gb			
36	3306091	EC 36	3306072											62-E-05-401-03			
58	3306095	EC 58	3306074											letzte Revision			

KW- Doppelkanal mit PLL- Kompaktlampen und IR Strahler Standardmässig max. 4 Lampen/ Kanal (Für Anzahl und Lampenleistung siehe Datenblätter) und 1 IR Strahler pro GN- Feld



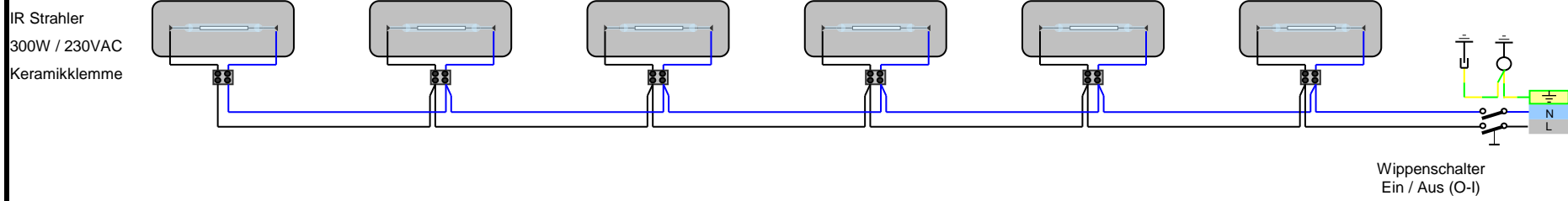
KW- Doppelkanal mit Leuchtstofflampen und IR Strahler Standardmässig 1 Lampe/ Kanal (Für Lampenleistung siehe Datenblätter) und 1 IR Strahler pro GN- Feld



Bezeichnung	Leistung	Art.- Nr.	Bezeichnung	Leistung	Art.- Nr.	Bezeichnung	Leistung	Art.- Nr.
IR Strahler 230VAC	300W	2002663	Dimmerprint 230VAC	300W	3306106	Drehknopf zu Dimmerprint		1249018
IR Strahler Fassung		2002612	Feinsicherung 2A/250V		2002803	Anschlusskabel T12	CH	308920
Teflon- Isolationsplatte		2030335	Distanzhalter		3306018	Anschlusskabel Schuco	Exp.	308921

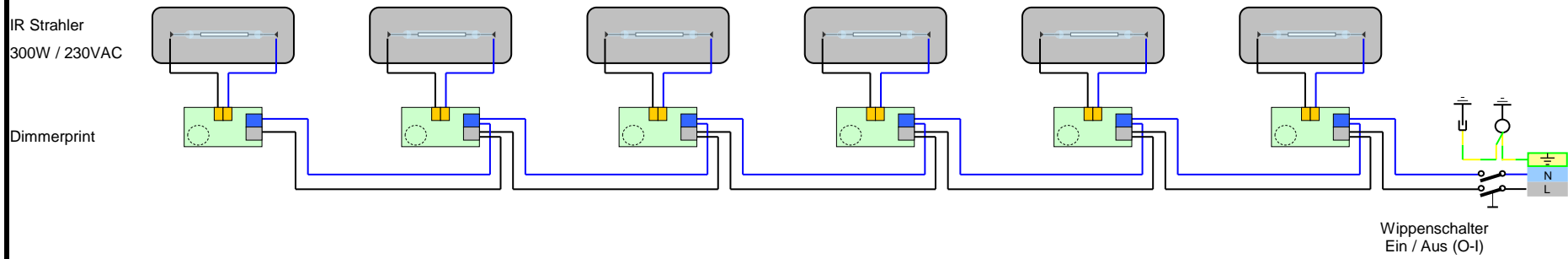
Leuchtstoffröhre				PLL- Kompaktlampen				Glimm- Starter Art.- Nr.	Starter Fassung Art.- Nr.	O-I Schalter Art.- Nr.	Anschl. Klemmen Art.- Nr.	Gültigkeits- Bereich	Serie- Nr.		Auslieferdatum	
Leistung Watt	Art.- Nr.	Vorschaltgerät Typ	Fassung Art.- Nr.	Leistung Watt	Art.- Nr.	Fassung Art.- Nr.	Halter Art.- Nr.						Vorschaltgerät Typ	Art.- Nr.	von	bis
15	3306221	EC 15	3306068	18	3306203			EC 18	3306070	2000413	3306088	SOLARIS- KW- Kanal (gedimmt) Verkabelungs- Schema BEER GRILL AG 5612 Villmergen Tel. 056 618 78 0055000	15.04.2005	Datum	28.02.2005
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36	3306091	EC 36	3306072													
58	3306095	EC 58	3306074					PC 1/80	3306074	-	-				2000416	910297

W- Einzelkanal mit IR Strahler ungedimmt (EIN / AUS) Standardmässig 1 Lampe/ GN- Feld (Rasterabstand 340mm) Für Anzahl und Lampenleistung siehe Datenblätter

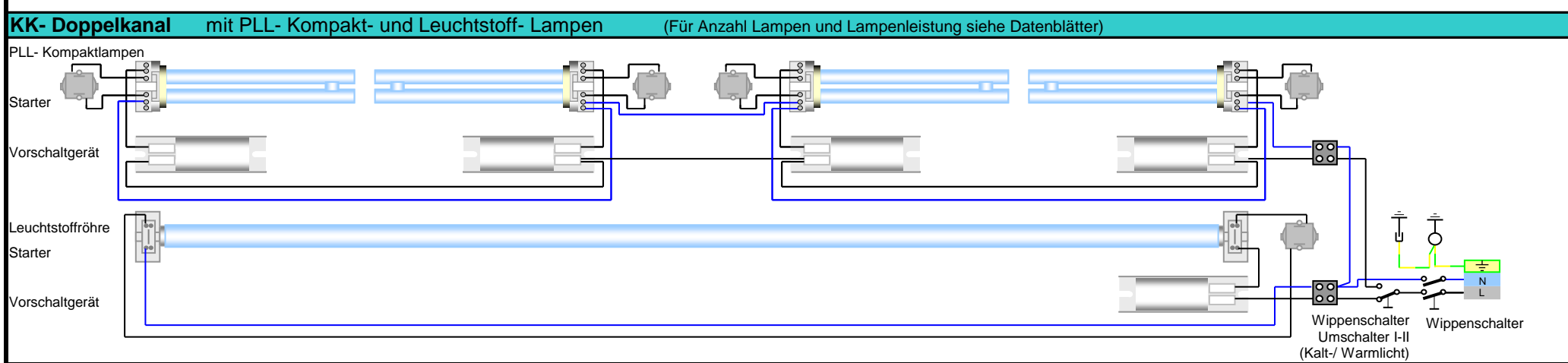
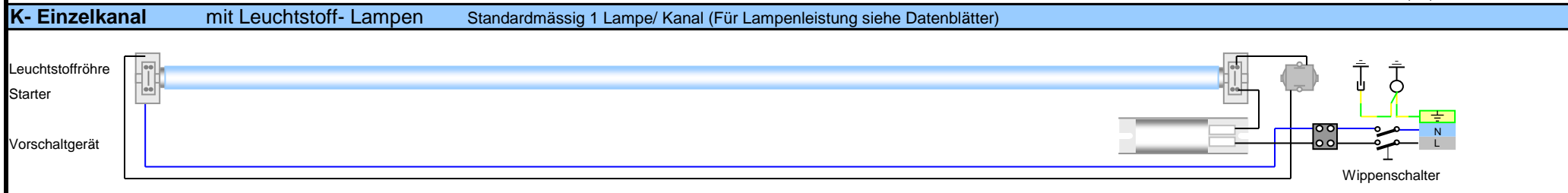
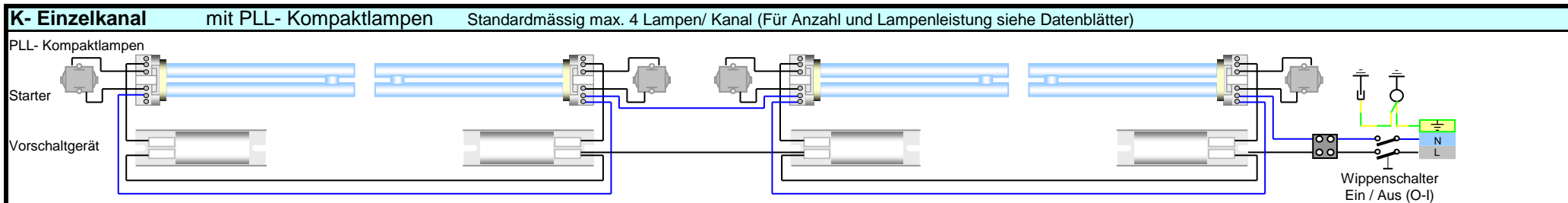


(K)W- Doppelkanal mit IR Strahler gedimmt Standardmässig 1 Lampe/ GN- Feld (Rasterabstand 340mm) Für Anzahl und Lampenleistung siehe Datenblätter

K- Kanal nur mit Dimmerprints bestückt!



Bezeichnung	Leistung Watt	Artikel Nr.	Bezeichnung	Leistung Watt	Artikel Nr.	Bezeichnung	Leistung Watt	Artikel Nr.	Bemerkungen:																																								
IR Strahler	230VAC	300W	2002663	Dimmerprint	230VAC	300W	3306106		<table border="1"> <tr> <td rowspan="2">Gültigkeitsbereich</td> <td colspan="2">Serie- Nr.</td> <td colspan="2">Auslieferdatum</td> </tr> <tr> <td>von</td> <td>bis</td> <td>von</td> <td>bis</td> </tr> <tr> <td></td> <td colspan="2">.....55000</td> <td colspan="2">15.04.2005</td> </tr> <tr> <td colspan="3">SOLARIS- W- Kanal unged./ gedimmt</td> <td>Datum</td> <td>18.01.2006</td> </tr> <tr> <td colspan="3">Verkabelungs- Schema</td> <td>Visum</td> <td>gb</td> </tr> <tr> <td colspan="3">BEER GRILL AG</td> <td colspan="2" rowspan="3">62-E-05-401-02</td> </tr> <tr> <td colspan="3">5612 Villmergen</td> </tr> <tr> <td colspan="3">Tel. 056 618 78 00</td> </tr> <tr> <td colspan="3"></td> <td>letzte Revision</td> <td></td> </tr> </table>	Gültigkeitsbereich	Serie- Nr.		Auslieferdatum		von	bis	von	bis	55000		15.04.2005		SOLARIS- W- Kanal unged./ gedimmt			Datum	18.01.2006	Verkabelungs- Schema			Visum	gb	BEER GRILL AG			62-E-05-401-02		5612 Villmergen			Tel. 056 618 78 00						letzte Revision	
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Anschlusskabel	Schuco	Exp.	308921																																														



Bezeichnung		Art.- Nr.									Bemerkungen:							
Anschlussklemmenbock		3P	3306088	Wippenschalter	Ein- Aus	O-I	2000413											
Anschlusskabel T12		CH	308920	Wippenschalter	Umsch.	I - II	2000416											
Anschlusskabel Schuco		Exp.	308921	Keramikklemmen		2P	910297											
Leuchtstoffröhre Leistung Watt	Art.- Nr.	Vorschaltgerät Typ	Art.- Nr.	Röhren- Fassung Art.- Nr.	PLL- Kompaktl.		Lampen Fassung Art.- Nr.	Lampen Halter Art.- Nr.	Vorschaltgerät		Glimm- Starter Art.- Nr.	Starter Fassung Art.- Nr.	Gülti- keits Bereich	Serie- Nr.		Auslieferdatum		
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58	3306095	EC 58	3306074	3306048														
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												Tel. 056 618 78 00						letzte Revision