LAND TO THE REAR OF 159-163
KING'S CROSS ROAD
WC1X 9BN
16038
2016/6356/P
PLANNING CONDITION 19
January 2021

Prior to commencement of use, a light spill mitigation plan shall be submitted to and approved in writing by the Council in consultation with local residents. The use shall thereafter not be carried out other than in accordance with such plan as has been approved.

Reason: To safeguard the amenities of the adjoining premises in accordance with the requirements of Policy A1 of the Camden Local Plan 2017.

CONTENTS

EX-1.0 METHOD STATEMENT

The blinds will be electronically controlled by a photocell, positioned facing north at the lower roof level on 2nd floor. This photocell will ensure that in the evening as external daylight diminishes, the blinds will automatically close.

It is proposed to use a dark grey blind fabric with 10% transmission factor to limit light levels. The blind fabric proposed is Silent Gliss '3001 10%', as shown below:

Locations of the proposed blinds can be found in section EX-2.0 of this report and all relevant technical data sheets have been included within the appendix.

EX-2.0 WINDOW TREATMENTS

EX-2.1 Proposed Ground Floor Plan
EX-2.2 Proposed Basement Floor Plan
EX-2.3 Proposed First Floor Plan
EX-2.4 Proposed Second Floor Plan
EX-2.5 Proposed Roof Plan

APPENDIX

Appendix A: Manufacturer's Specification Details

KEY

APPROACH 1
Motorised Blinds
- Blind fabric with 10% transmission factor.

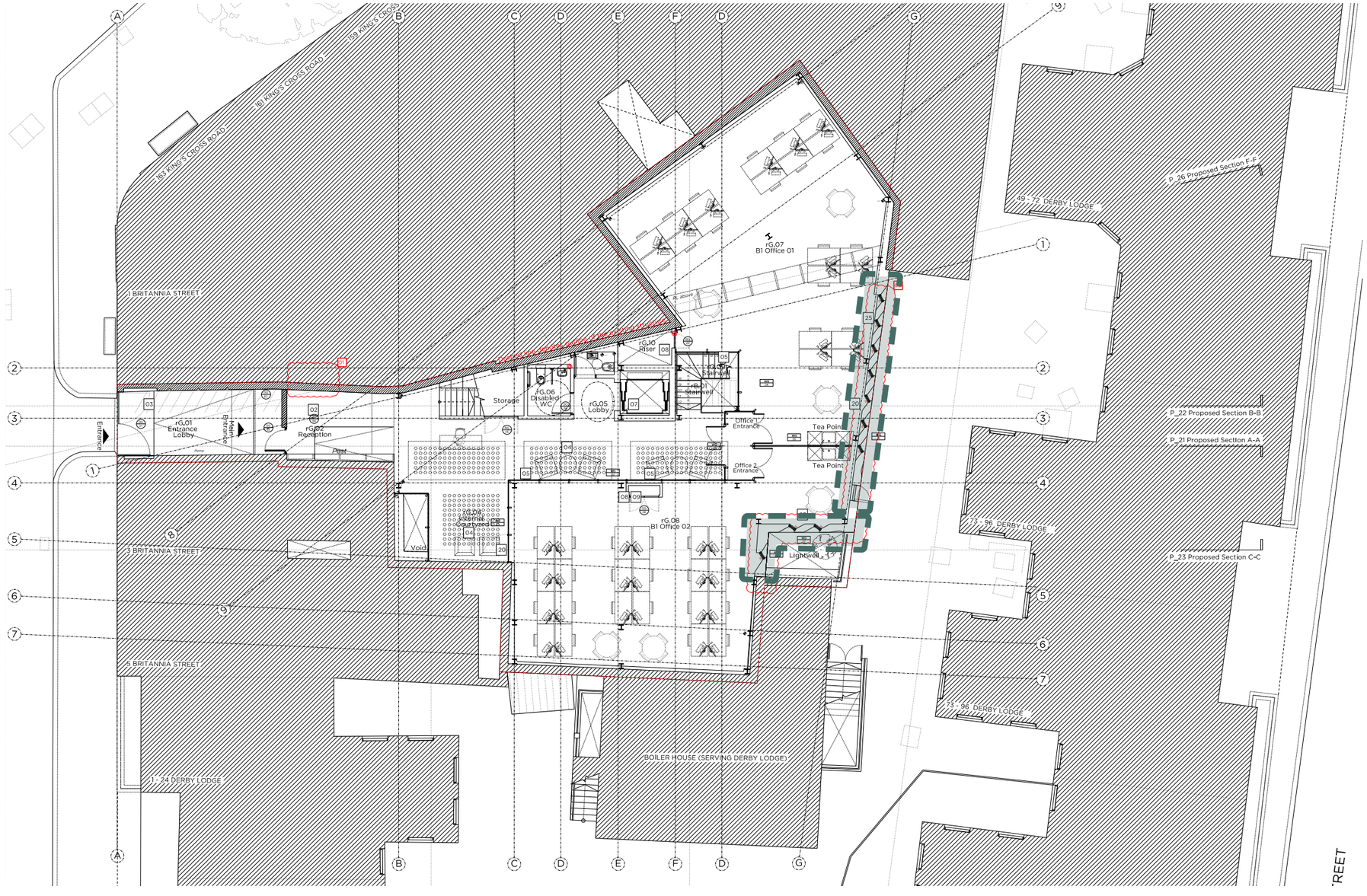
APPROACH 2
Small window opening & deep reveals - no window treatment proposed.

APPROACH 3
Windows below ground level
- no window treatment proposed.

APPROACH 4
Rooflight shielded by existing walls on all sides
- no window treatment proposed.

APPROACH 5
Low ambient light levels
- no window treatment proposed

APPROACH 6
Small rooflight shielded by walls on 3 sides, distant from any residential rooms
- no window treatment proposed.



EX-2.1 GROUND FLOOR DETAIL KEY PLAN

Land to the Rear of 159-163 King's Cross Road
Wc1X 9BN
16038
2016/6356/P
Planning Condition 19

MAREK WOJCIECHOWSKI ARCHITECTS
LONDON

KEY

APPROACH 1
Motorised Blinds
- Blind fabric with 10% transmission factor.

APPROACH 2
Small window opening & deep reveals - no window treatment proposed.

APPROACH 3
Windows below ground level
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APPROACH 4
Rooflight shielded by existing walls on all sides
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APPROACH 5
Low ambient light levels
- no window treatment proposed

APPROACH 6
Small rooflight shielded by walls on 3 sides, distant from any residential rooms
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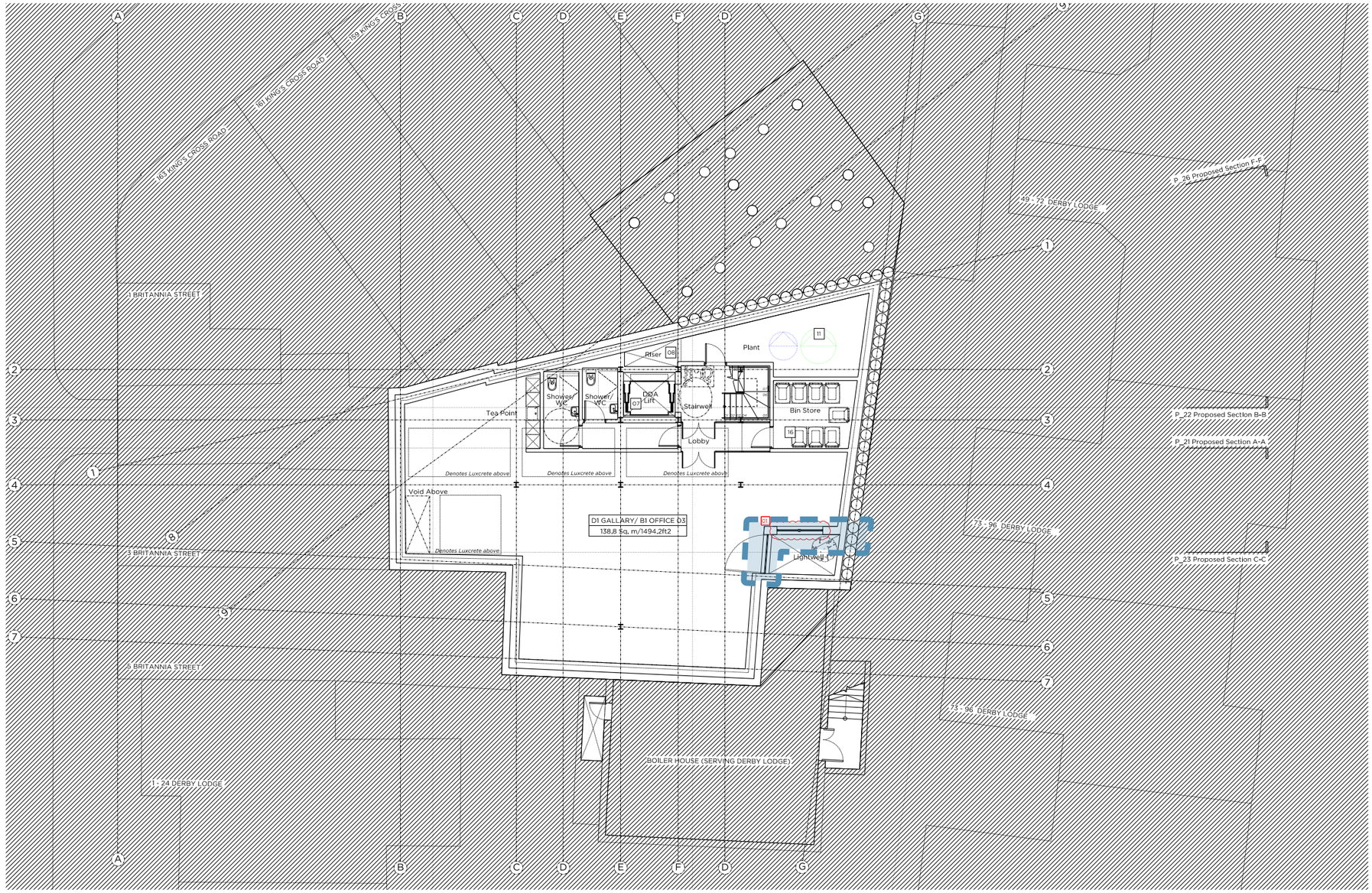


EX-2.2 BASEMENT FLOOR DETAIL KEY PLAN

Land to the Rear of 159-163 King's Cross Road
Wc1X 9BN
16038
2016/6356/P
Planning Condition 19

MAREK WOJCIECHOWSKI ARCHITECTS
LONDON

KEY

APPROACH 1
Motorised Blinds
- Blind fabric with 10% transmission factor.

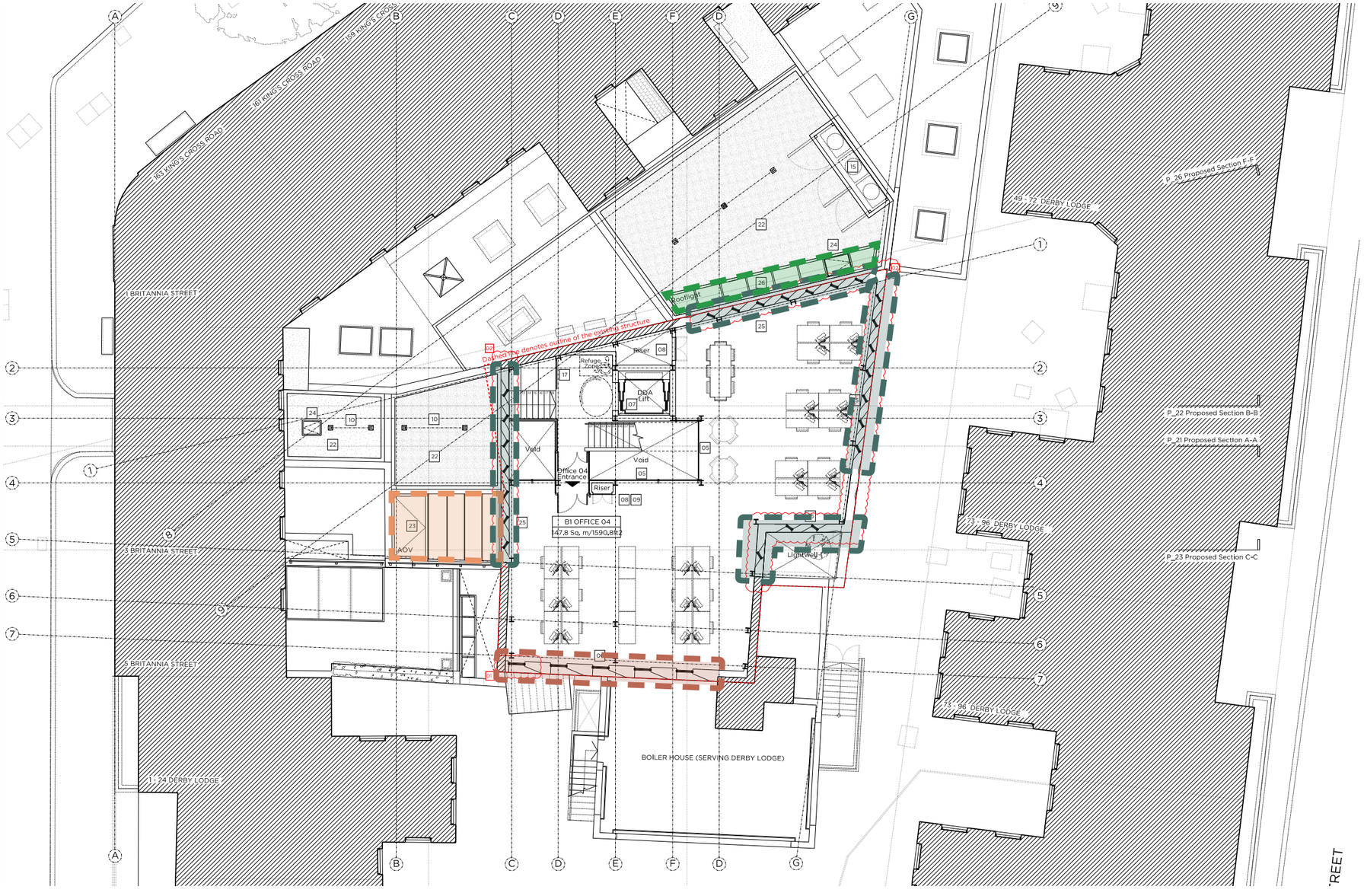
APPROACH 2
Small window opening & deep reveals - no window treatment proposed.

APPROACH 3
Windows below ground level
- no window treatment proposed.

APPROACH 4
Rooflight shielded by existing walls on all sides
- no window treatment proposed.

APPROACH 5
Low ambient light levels
- no window treatment proposed

APPROACH 6
Small rooflight shielded by walls on 3 sides, distant from any residential rooms
- no window treatment proposed.



EX-2.3 FIRST FLOOR DETAIL KEY PLAN

Land to the Rear of 159-163 King's Cross Road
Wc1X 9BN
16038
2016/6356/P
Planning Condition 19

MAREK WOJCIECHOWSKI ARCHITECTS
LONDON

KEY

APPROACH 1
Motorised Blinds
- Blind fabric with 10% transmission factor.

APPROACH 2
Small window opening & deep reveals - no window treatment proposed.

APPROACH 3
Windows below ground level
- no window treatment proposed.

APPROACH 4
Rooflight shielded by existing walls on all sides
- no window treatment proposed.

APPROACH 5
Low ambient light levels
- no window treatment proposed

APPROACH 6
Small rooflight shielded by walls on 3 sides, distant from any residential rooms
- no window treatment proposed.

EX-2.4 SECOND FLOOR DETAIL KEY PLAN

Land to the Rear of 159-163 King's Cross Road
Wc1X 9BN
16038
2016/6356/P
Planning Condition 19

MAREK WOJCIECHOWSKI ARCHITECTS
LONDON

KEY

APPROACH 1
Motorised Blinds
- Blind fabric with 10% transmission factor.

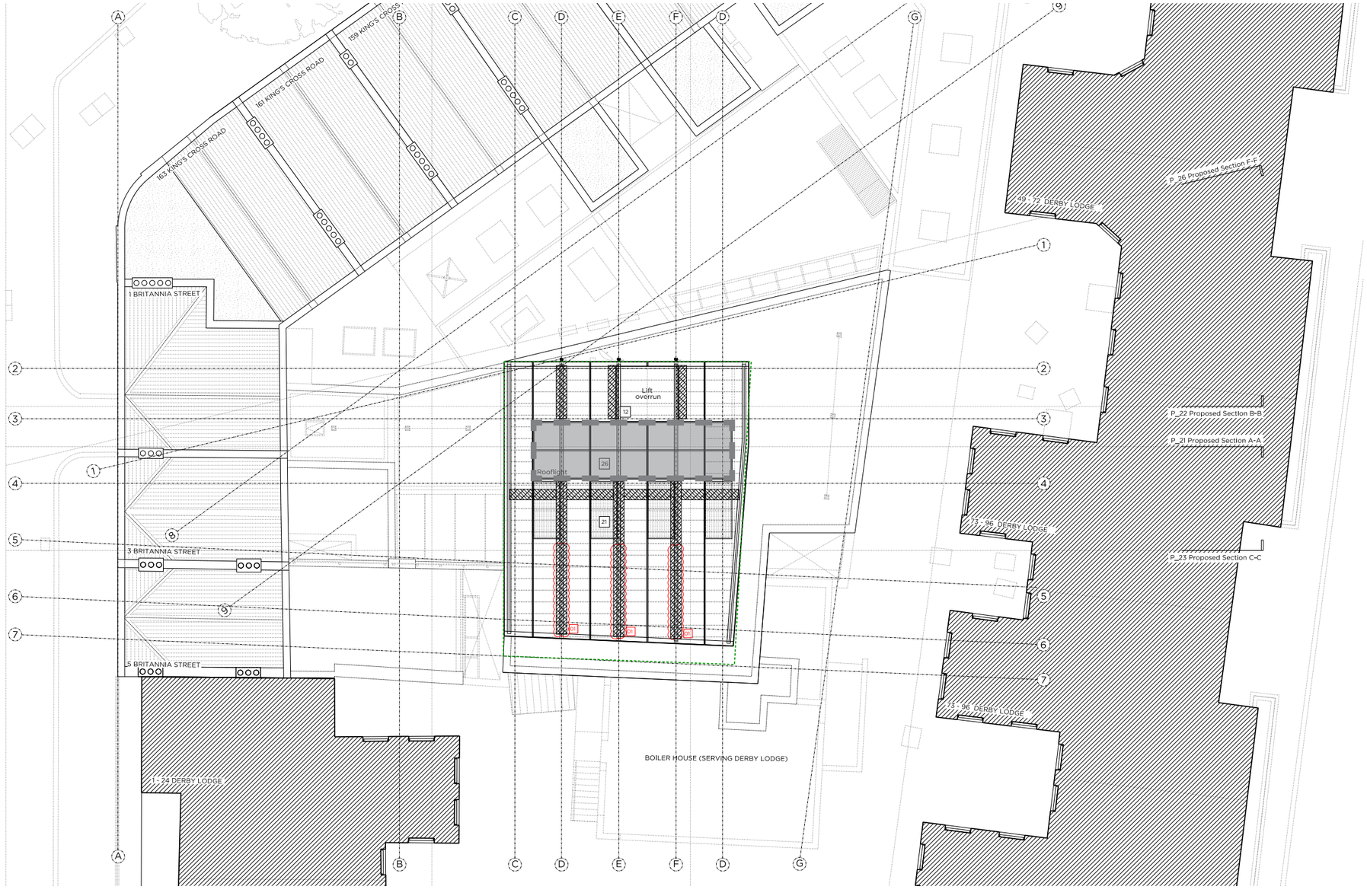
APPROACH 2
Small window opening & deep reveals - no window treatment proposed.

APPROACH 3
Windows below ground level
- no window treatment proposed.

APPROACH 4
Rooflight shielded by existing walls on all sides
- no window treatment proposed.

APPROACH 5
Low ambient light levels
- no window treatment proposed

APPROACH 6
Small rooflight shielded by walls on 3 sides, distant from any residential rooms
- no window treatment proposed.

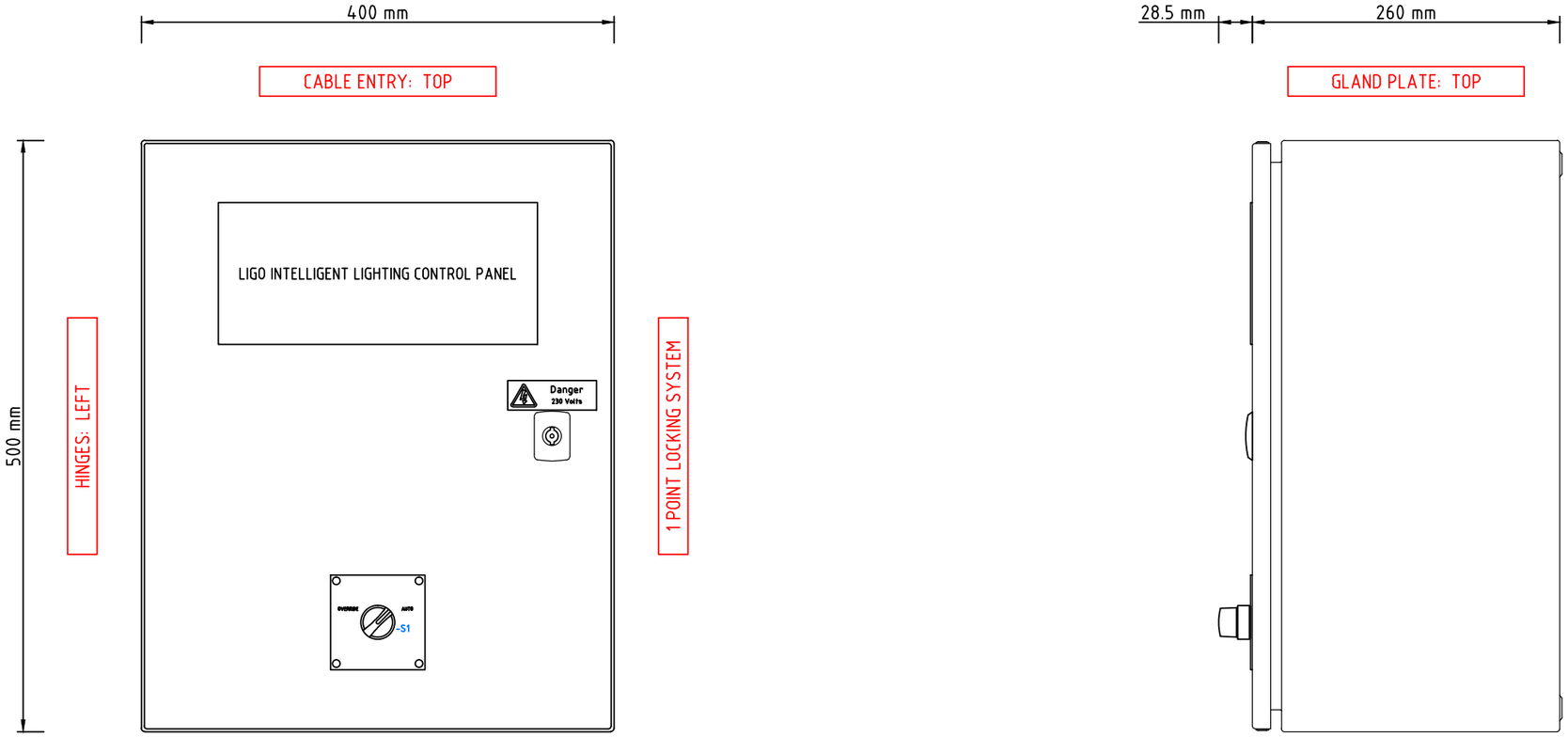


EX-2.5 ROOF DETAIL KEY PLAN

Land to the Rear of 159-163 King's Cross Road
Wc1X 9BN
16038
2016/6356/P
Planning Condition 19

MAREK WOJCIECHOWSKI ARCHITECTS
LONDON

APPENDIX:
MANUFACTURER'S
SPECIFICATION DETAILS



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Email sales@opentechnologyuk.com
Web www.opentechnologyuk.com

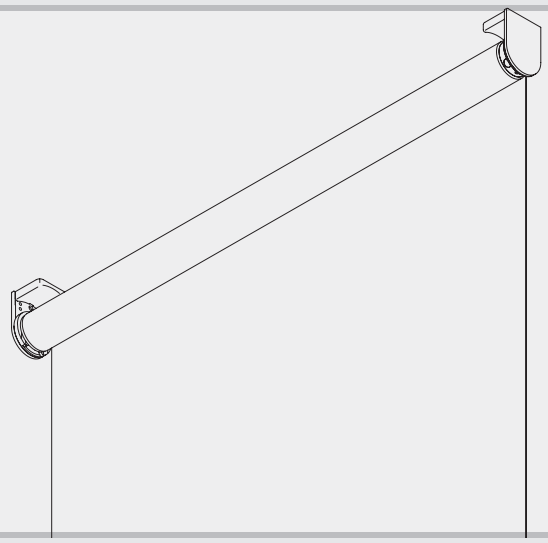
Title	External Layout Drawing			Designed By	DT
Description	LiGO Intelligent Lighting Control Panel			Drawn By	DT
Order No.	OTSO-			Checked By	CB
Customer				Approved By	CB
Site					
Drawing No.		A3	Revision	1	Page 5 of 8
Date	28/02/2017		Status	As Built	

Roller Blind Systems

SilentGliss®

Motorised Roller Blind System

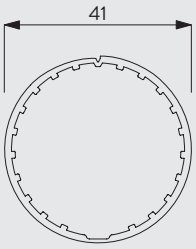
Silent Gliss® 4960



Product Information

- Medium duty motorised roller blind system for contract and residential applications
- Fixed switch or optional radio remote control
- The system can be used as a single or connected double system with one motor
- Progressive limit switch unit for easy setting and consistent positioning
- Easy ceiling, wall or recess fix
- Optional continuous installation profile with click in brackets for fast fixing on site
- Side-by-side/double version with centre support bracket and minimal light gap
- Side guide option available
- Choice of bottom bar designs
- Optional metal design brackets with or without continuous headrail
- Quiet and fast mains powered motor
- Optional 24V DC motor available
- Can be combined with Radio Remote Control System Silent Gliss 9940/0450
- Optional Smart motor to allow integration and control by most major home control systems

Profile and Specification Information



10532

Specification Guide - download from the Silent Gliss Website (password required) www.silentgliss.co.uk.

4960 with SG Series 20 motors
Silent Gliss Electrically Operated Roller Blind System 4960. Supplied made to measure and complete comprising anodised aluminium barrel with integral 230v 50 Hz powered motor. Motor left / right side. Includes 10542/10543 bracket set for wall or ceiling fixing. White bracket covers 10574/10575 supplied as standard. Aluminium bottom weight bar 4221 as standard in white (other shape options available). Operation by mains switch (not supplied) or mains switching by third party control system or / SG 0450 remote control system components (supplied at additional cost)

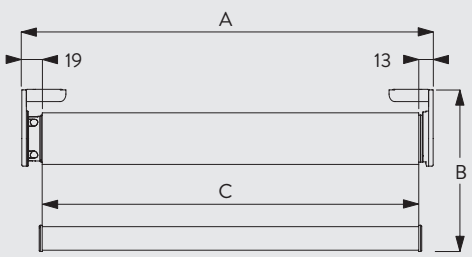
4960 with SG Series 40 motors
Silent Gliss Electrically Operated Roller Blind System 4960. Supplied made to measure and complete comprising anodised aluminium barrel with integral 240-100v 50/60 Hz mains powered motor. Motor left / right side . Includes 10542/10543 bracket set for wall or ceiling fixing. White bracket covers 10574/10575 supplied as standard. Aluminium bottom weight bar 4221 as standard in white (other shape options available). Operation by dry contact switching either from fixed switch (not supplied) or third party control system and /or Silent Gliss 9940 radio control system via integrated receiver. (9940 control components supplied at additional cost).

4960 with 'Smart by Silent Gliss' motors
Silent Gliss Electrically Operated Roller Blind System 4960. Supplied made to measure and complete comprising anodised aluminium barrel with integral 24V DC powered motor: Motor left / right side. Operation via Silent Gliss Smart Gateway and associated components in conjunction with compatible third party control systems. Includes 10542/10543 bracket set for wall / ceiling fixing. White bracket covers 10574/10575 supplied as standard. Aluminium bottom weight bar 4221 as standard in white (other shape options available).

All wiring to be strictly in accordance with Silent Gliss wiring diagrams.

How to Measure

Single system



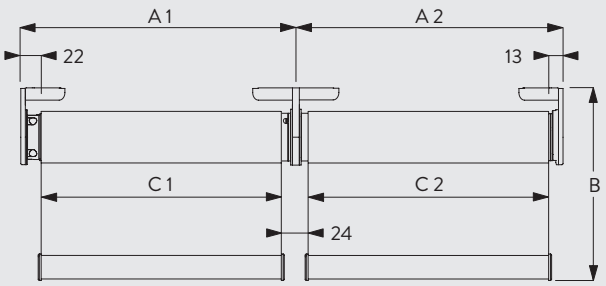
A: system width (inside recess includes bracket covers)
B: system drop
C: fabric width

Please note:
- OUTSIDE recess does not include bracket covers, please add 4mm.
- measurements differ when side-guide option is used.

Important!

Fabric gaps indicated are for Series 20 motors. For Series 40 and Smart motors, the fabric gaps are 26mm and 9mm respectively.

Double (connected) systems only available with Series 20, 40 and Smart motors



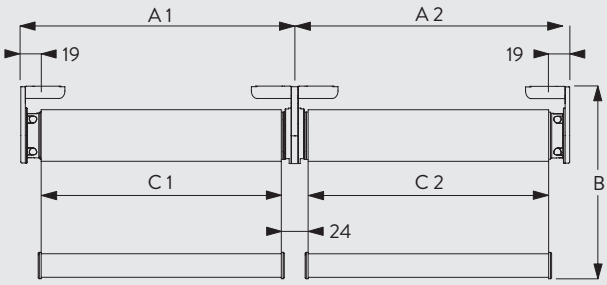
A: system width (inside recess includes bracket covers)
B: system drop
C: fabric width

Please note:
- OUTSIDE recess does not include bracket covers, please add 4mm.
- measurements differ when side-guide option is used.

Important!

Fabric gaps indicated are for Series 20 motors. For Series 40 and Smart motors, the fabric gaps are 26mm and 9mm respectively.

Side-by-side systems (unconnected)



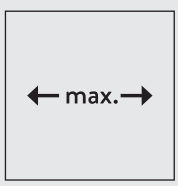
A: system width (inside recess includes bracket covers)
B: system drop
C: fabric width

Please note:
- OUTSIDE recess does not include bracket covers, please add 4mm.
- measurements differ when side-guide option is used.

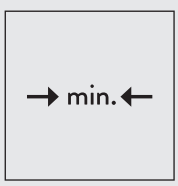
Important!

Fabric gaps indicated are for Series 20 motors. For Series 40 and Smart motors, the fabric gaps are 26mm and 26mm respectively.

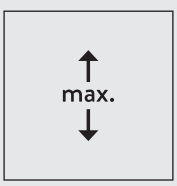
System Dimensions



Single system: 2.4m
Double System (connected) with 230V motor only: 4.8m



See below:



4m

Single system: 9.6m²
Double system 19.2m²

5.5kg

Maximum system width:
- to drop ratio should not exceed 3.5:1
- will also depend on the fabric type

Minimum system width:
- Series 20 / Series 40 LV / Smart - 61cm
- Series 40 mains power - 83cm

Maximum system drop

Wall fitting (system drop on window side):

Fabric thickness	mm	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80
Max. system drop	cm	400	400	400	400	400	400	390	350	320	290	270	250	230	220

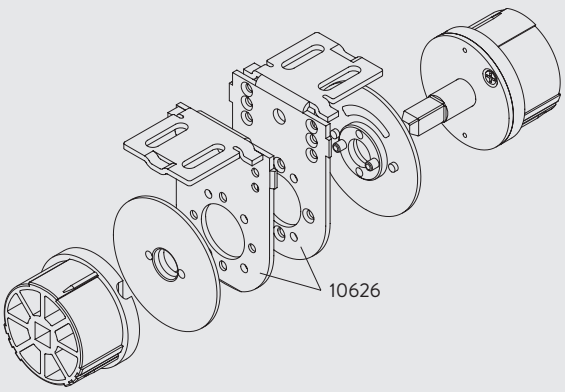
Ceiling fitting / wall fitting (system drop on room side):

Fabric thickness	mm	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80
Max. system drop	cm	400	400	400	400	400	400	400	400	400	380	350	330	300	280

To obtain fabric thickness information for a specific Silent Gliss fabric, please refer to the Silent Gliss fabric binder or contact Silent Gliss.

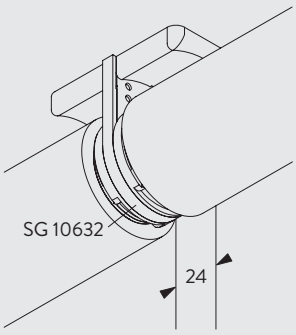
System Options

Double (connected) systems with centre support brackets 10626 (only possible with 230V motors)



The optional centre support bracket allows two connected systems to be powered by one motor. It can also be combined with continuous installation profile for easy on-site fixing.

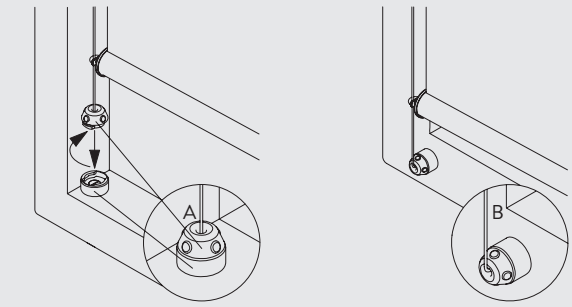
Side-by-side systems (unconnected)



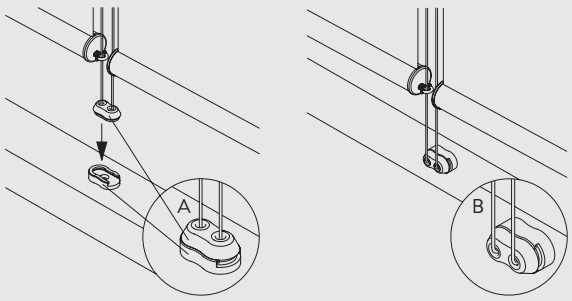
10632 Intermediate cover

Side guides for stabilising blind systems and sloped applications (up to 15° incline)

Single system



Double system



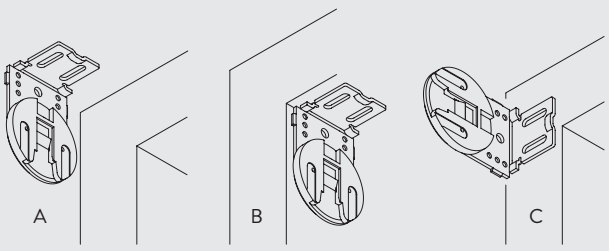
A: Fitting of side guides inside window frame
B: Fitting of side guides to front of window frame

Optional box fascia

System 4960 is available with an optional box fascia. Please contact Silent Gliss for further details.

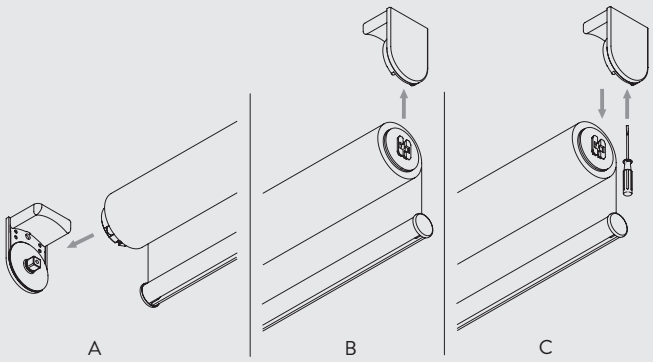
Fitting Information

Positioning of system



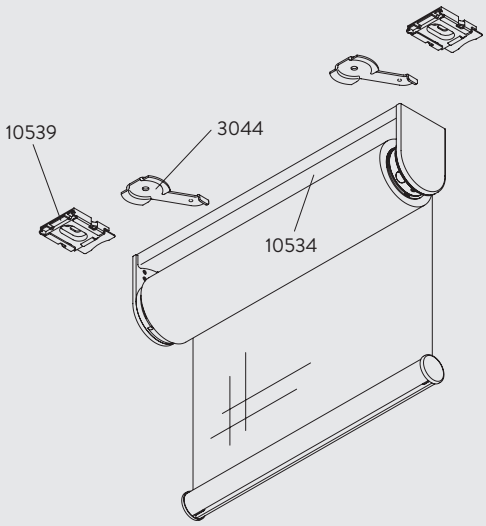
A: Ceiling Fixing
B: Recess Fixing
C: Wall Fixing

Easy loading and removal of the blind



A: Insert roller blind into support bracket (drive side)
B: Click roller blind into support bracket (click side)
C: Use small screwdriver to remove roller blind

Alternative fixing with continuous installation profile (optional)



System is pre-mounted on continuous installation profile 10534 for fast fitting on site. Just mount the system with pre-fixed clamps 3044 or click brackets 10539.

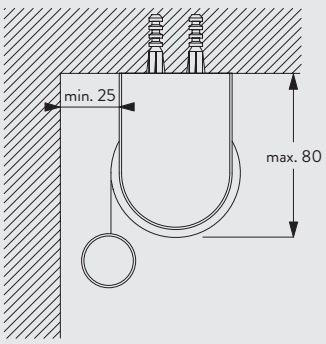
Please note: click brackets 10539 cannot be used with double (connected) systems.

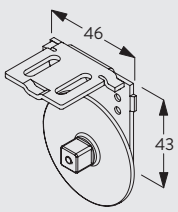
4960

Fitting Options

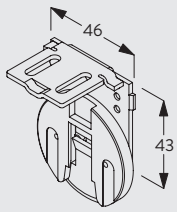
CAD download available from www.silentgliss.co.uk (password required)

Ceiling fix with brackets

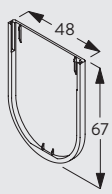




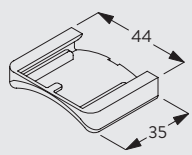
10542
Support bracket drive side



10543
Support bracket click side



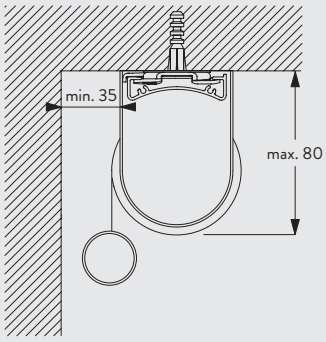
10574
Cover

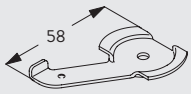


10575
Cover

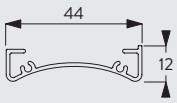
All measurements are based on the maximum system dimensions.

Ceiling fix with optional installation profile and clamps 3044

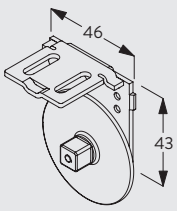




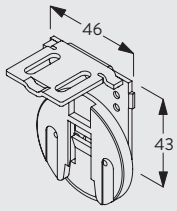
3044
Clamp



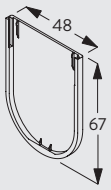
10534
Profile



10542
Support bracket drive side



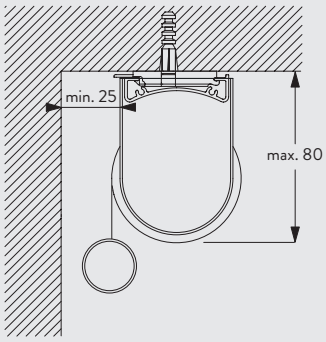
10543
Support bracket click side

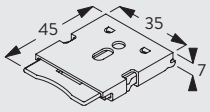


10574
Cover

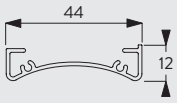
All measurements are based on the maximum system dimensions.

Ceiling fix with optional installation profile and click bracket 10539

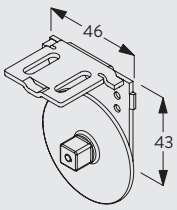




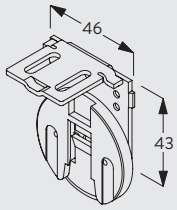
10539
Click bracket



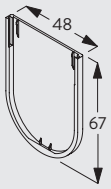
10534
Profile



10542
Support bracket drive side



10543
Support bracket click side

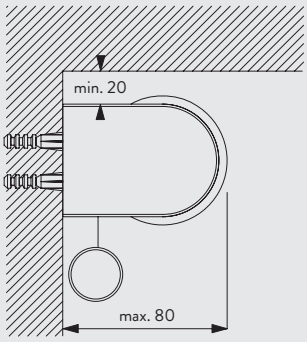


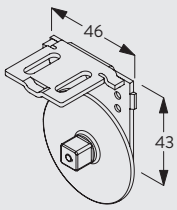
10574
Cover

All measurements are based on the maximum system dimensions.

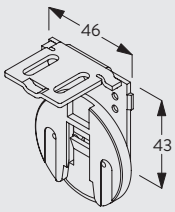
Please note: this fitting option is not possible with double (connected) systems.

Wall fix with brackets

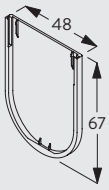




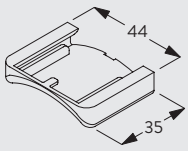
10542
Support bracket drive side



10543
Support bracket click side



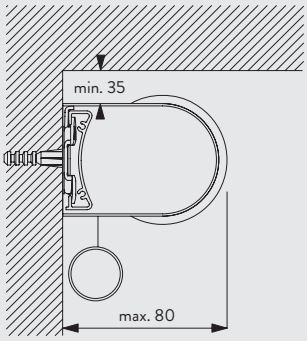
10574
Cover

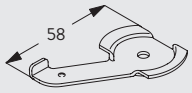


10575
Cover

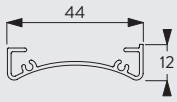
All measurements are based on the maximum system dimensions.

Wall fix with optional installation profile and clamps 3044

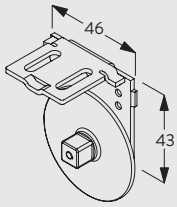




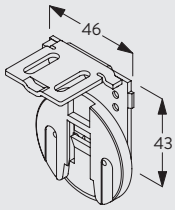
3044
Clamp



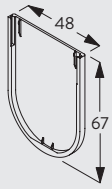
10534
Profile



10542
Support bracket drive side



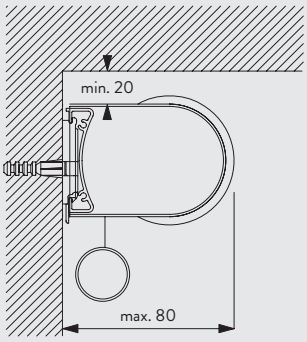
10543
Support bracket click side

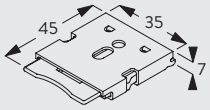


10574
Cover

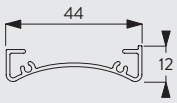
All measurements are based on the maximum system dimensions.

Wall fix with optional installation profile and click bracket 10539

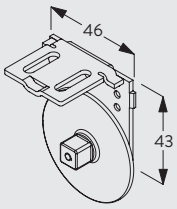




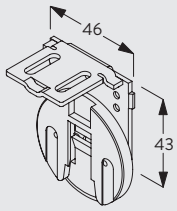
10539
Click bracket



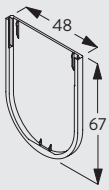
10534
Profile



10542
Support bracket drive side



10543
Support bracket click side

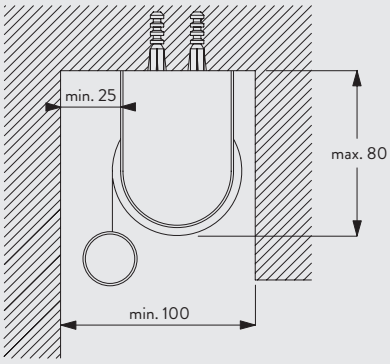


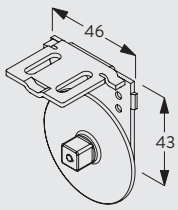
10574
Cover

All measurements are based on the maximum system dimensions.

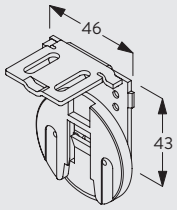
Please note: this fitting option is not possible with double (connected) systems.

Recess fix with brackets

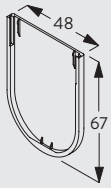




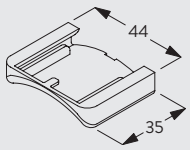
10542
Support bracket drive side



10543
Support bracket click side



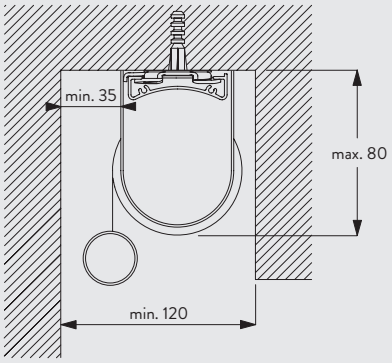
10574
Cover

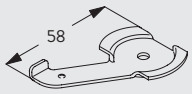


10575
Cover

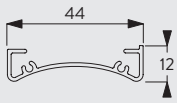
All measurements are based on the maximum system dimensions.

Recess fix with optional installation profile and clamps 3044

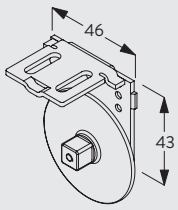




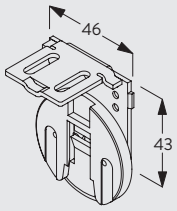
3044
Clamp



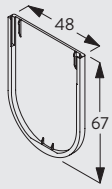
10534
Profile



10542
Support bracket drive side



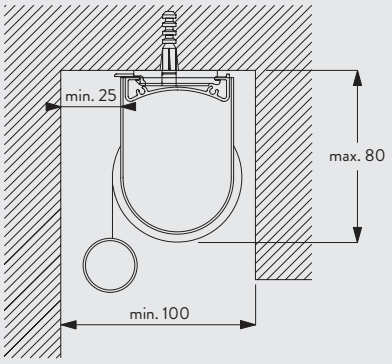
10543
Support bracket click side

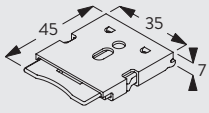


10574
Cover

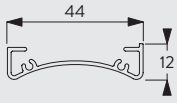
All measurements are based on the maximum system dimensions.

Recess fix with optional installation profile and click bracket 10539

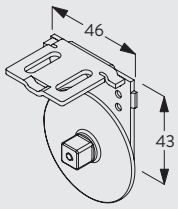




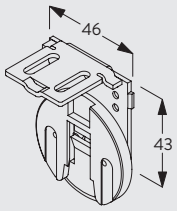
10539
Click bracket



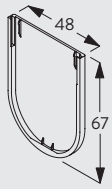
10534
Profile



10542
Support bracket drive side



10543
Support bracket click side

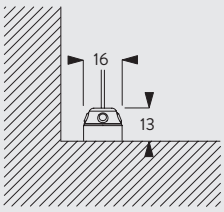


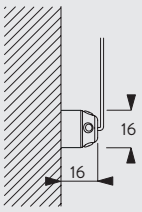
10574
Cover

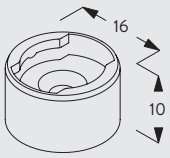
All measurements are based on the maximum system dimensions.

Please note: this fitting option is not possible with double (connected) systems.

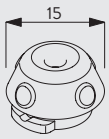
Fitting with side guide option





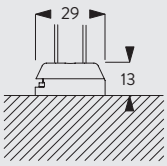


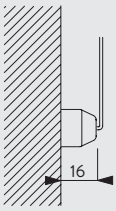
8236
Wire base long

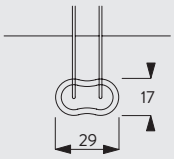


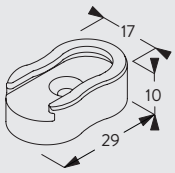
8237
Wire holder

Fitting with side guide option (connected and side-by-side installations)

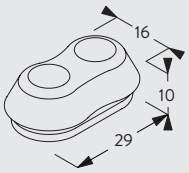








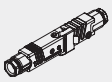
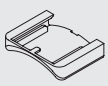
10669
Double base long
(side guide)



10701
Double wire holder
(side guide)

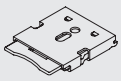
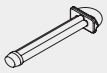
Standard Accessories

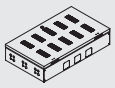
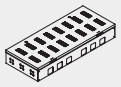
4221	Bottom bar	
10320	Motor 20-Series, 230V	
10542	Support bracket drive side	
10574	Cover	
10639	End cover round	

9916	In-line connector - complete/no lead (was 0766)	
10532	Profile	
10543	Support bracket click side	
10575	Cover	

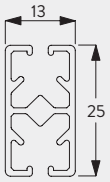
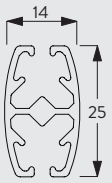
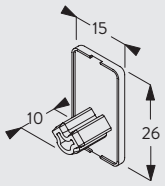
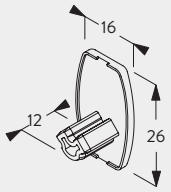
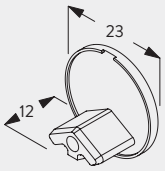
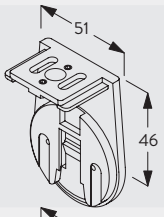
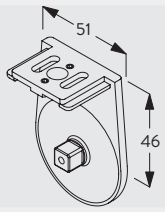
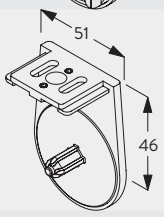
Optional Accessories

0578	Pattress box	
0615	Latching switch inc. pattress box	

0997	Motor Test Lead		3044	Clamp	
8235	Wire base short		8236	Wire base long	
8237	Wire holder		8249	Locking ring	
10387	Cover for metal bracket		10534	Profile	
10535	Design end cover round (metal)		10539	Click bracket	
10544	Support bracket drive side (24V DC motor)		10626	Intermediate bracket stainless steel	
10627	Intermediate flange		10628	Adapter for intermediate connector	
10632	Intermediate cover		10633	Bottom bar rectangle	
10634	Bottom bar oval		10635	End cover rectangle	
10636	End cover rectangle (side guide)		10637	End cover oval	
10638	End cover oval (side guide)		10640	End cover round (side guide)	
10641	Eyelet (side guide)		10642	Wire holder (side guide)	
10643	Wire ø 1.3mm x 4.2m (side guide)		10651	Intermediate flange with ring	
10669	Double base long (side guide)		10673	Double base short (side guide)	
10701	Double wire holder (side guide)		10703	Design bracket click side	
10704	Design bracket drive side		10705	Design bracket drive side (24V DC motor)	
10706	Wire ø 1.3mm x 2.6m (side guide)		11240	Motor 100-240V AC, 40-Series S 1.5/48, radio receiver	
11243	Motor 24V DC, 40-Series S 1.5/48, radio receiver		11250	Smart motor 24V	
11258	Tube adapter		11260	Smart controller gateway Cedia	
11261	Smart controller gateway KNX		11262	Smart expansion unit	

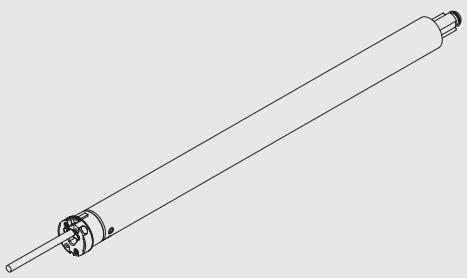
11263	Power supply 24V DC, 2 Ampere DIN Rail		11264	Power supply 24V DC, 3.8 Ampere DIN Rail	
11265	Power supply 24V DC, 5 Ampere DIN Rail		11266	Power supply 24V DC, 10 Ampere DIN Rail	
11281	Cabinet for 8 systems		11282	Cabinet for 24 systems	
11283	Cabinet for 56 systems		11325	Smart plug 6-pin, MC 1.5/6 ST-3.81	

Useful Measurements

4221	Bottom bar		10633	Bottom bar rectangle	
10634	Bottom bar oval		10635	End cover rectangle	
10637	End cover oval		10639	End cover round	
10703	Design bracket click side		10704	Design bracket drive side	
10705	Design bracket drive side (24V DC motor)				

Overview Motors & Controls

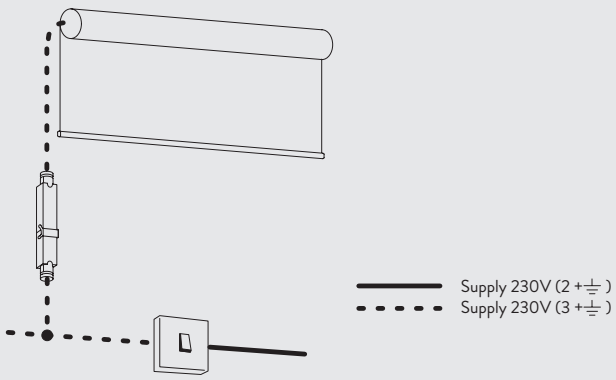
Motors Silent Gliss 10320 (20 Series)



- Motor length: 545mm
- Voltage: 230V
- Torque: 1.5Nm
- Speed: 70rpm
- Frequency: 50Hz
- Power: 135W
- Current: 0.60A
- Thermal overload protection
- CE Standard
- Cable pluggable

Operating Methods

Operation via fixed switch with motor 10320



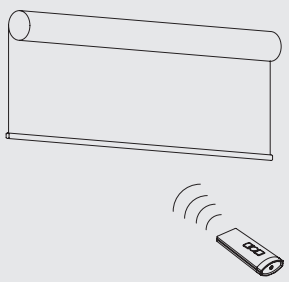
Up to 10 motors can be wired in parallel, cumulative total load to be 25% below the switch/fuse rating.

When using the fixed switch control for multiple blinds, when operating the blinds simultaneously the blinds may not necessarily stop at precisely the same intermediate point. Top and bottom levels can be preset in alignment.

If this is a requirement then we recommend using Radio Remote Control System 0450 with individual and simultaneous switching.

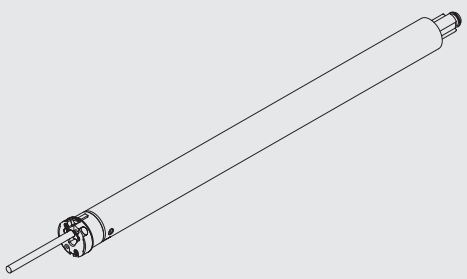
Operation with Radio Remote Control System 0450

4960



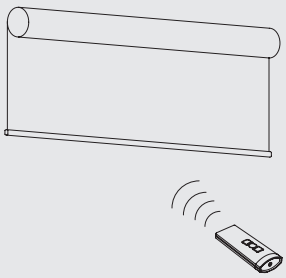
System 4960 can be combined with Radio Remote Control system 0450 using external receiver 0919 and associated 0450 transmitters.

Motor Silent Gliss 11240/11243 (40 Series)



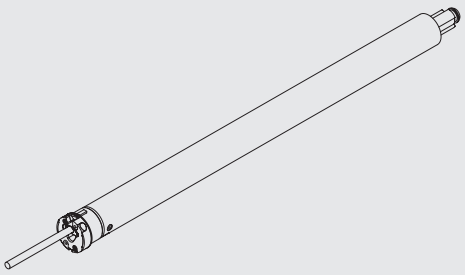
- Motor length: 11240 756mm / 11243 485mm
- Motor 11240: 240-100v 50/60 Hz supply
- Motor 11243: 24V DC supply
- Dry contact switched
- Integrated 9940 radio receiver
- Torque: 1.5NM
- Speed: 48rpm max (adjustable)
- Current: 1.5A

Operation with Radio Remote Control System 9940



All series 40 motors include an integrated receiver for use with Silent Gliss 9940 radio control system.

Motor Silent Gliss 11250 (Smart)



- 24V DC
- Smart motor to allow integration and control by most major home control systems
- Max speed: 48rpm (adjustable)
- Torque: 1.5Nm
- Must be used in conjunction with Silent Gliss Smart Gateway controller and associated components.

Wiring and connections

Important: Wiring diagrams are available on the Silent Gliss website (www.silentgliss.co.uk).

Note: For system integration with external controls please contact Silent Gliss for details.

4960

www.silentgliss.co.uk

www.silentglissglobal.com

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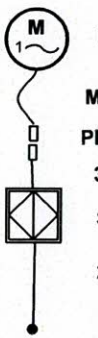
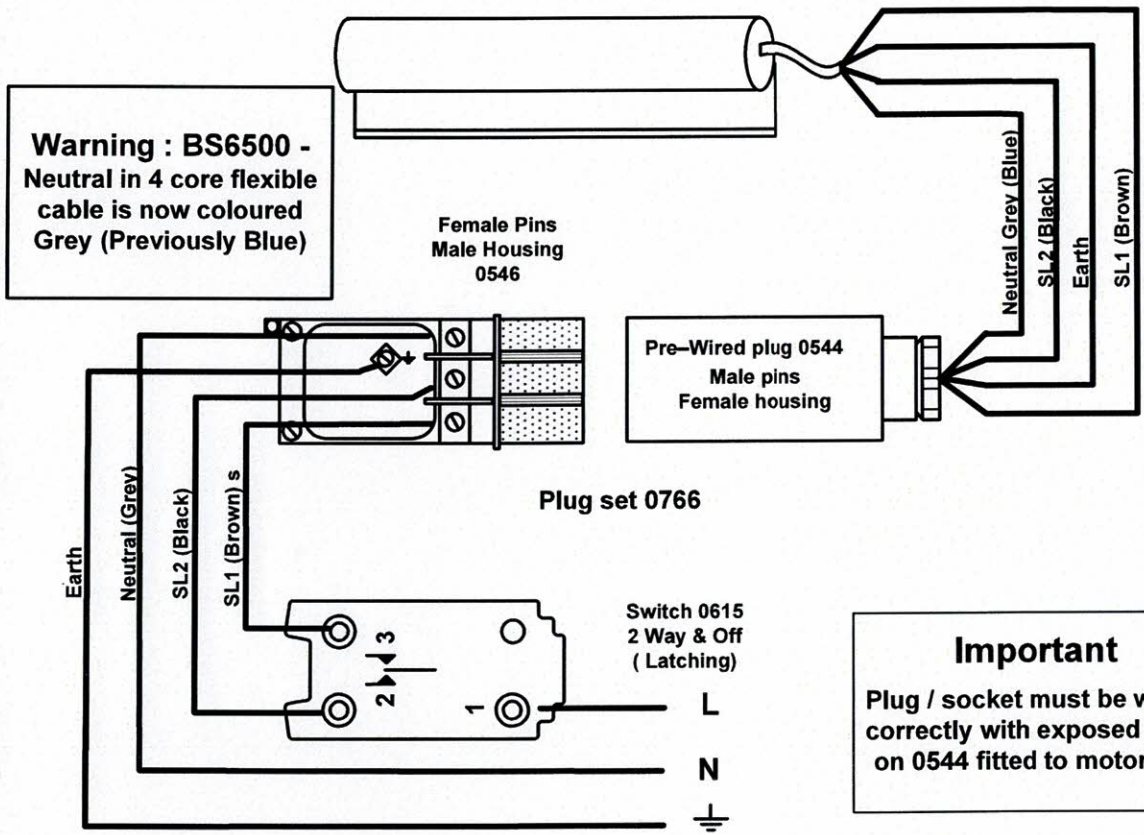
SilentGliss

All printed & electronically distributed copies of this drawing are uncontrolled copies

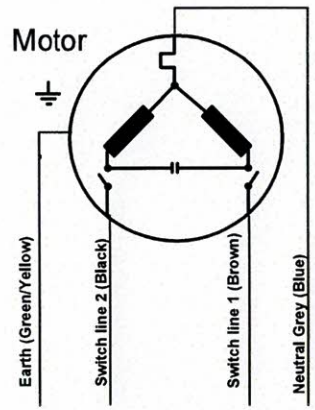
Multiple motors must not be wired in parallel to this diagram - See E102 & E103
Product specific



Warning : BS6500 -
Neutral in 4 core flexible cable is now coloured Grey (Previously Blue)



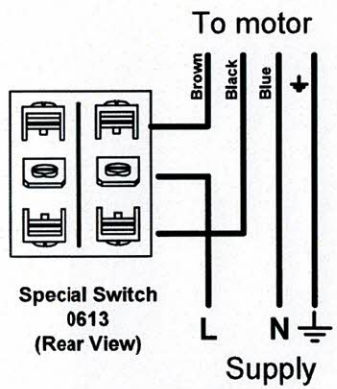
Important
Plug / socket must be wired correctly with exposed pins on 0544 fitted to motor tail



To reverse direction on command
Swap SL1 & SL2 at plug

System Motor Ratings(230v)

2195 - 0.6 amp
2350 - 0.8 amp
4760 - 0.8 amp
4770 - 0.8 amp
4780 - 0.8 amp
4960 - 0.8 amp
4870 - 0.8 amp
4880 - 0.90 amp
5800 - 2.2 amp
8600 - 0.66 amp
8640 - 1.00 amp
8960 - 0.50 amp



Systems 8800 & 8960 Only

Individual system control recommended

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Fax 01843 864503
E-mail: info@silentgliss.co.uk
Web site; www.silentgliss.co.uk

1 Motor from 1 Switch

Systems 2195, 2350, 4760/70/80, 4960, 4870, 4880, 5800, 8600, 8640, 8960

Drawing Number

E 101

Issue Date 04-01-18

LiGO Intelligent Lighting Control Topology and Schematics

Supply In

RJ45 Socket

*Option 2. Using an LCM Box

Mains Supply from Distribution Board

Mains Supply Loop In/Out to Additional 8 / 10 way LCM's (Max 8 LCM x 8 way)

LiGO Leg 2 of 8 or All Legs with 1.5mm DALI Pair to each LCM

DALI Loop In/Out to Additional LCM's (Max 64 Devices to plug arrangements)

LiGO Leg 1 of 8

1.5mm DALI Radial Pair looped to each luminaire.

Max 64 Devices - Max 300m

Luminaire 1

Em Luminaire 2

Luminaire 3

Em Luminaire 4

Luminaire 5 Etc....

DALI Spur

Msensor

DALI Spur

MC DALI Module & Switch

DALI Spur

Msensor

DALI Spur

Scene Switch

DALI Spur

DALI Relays

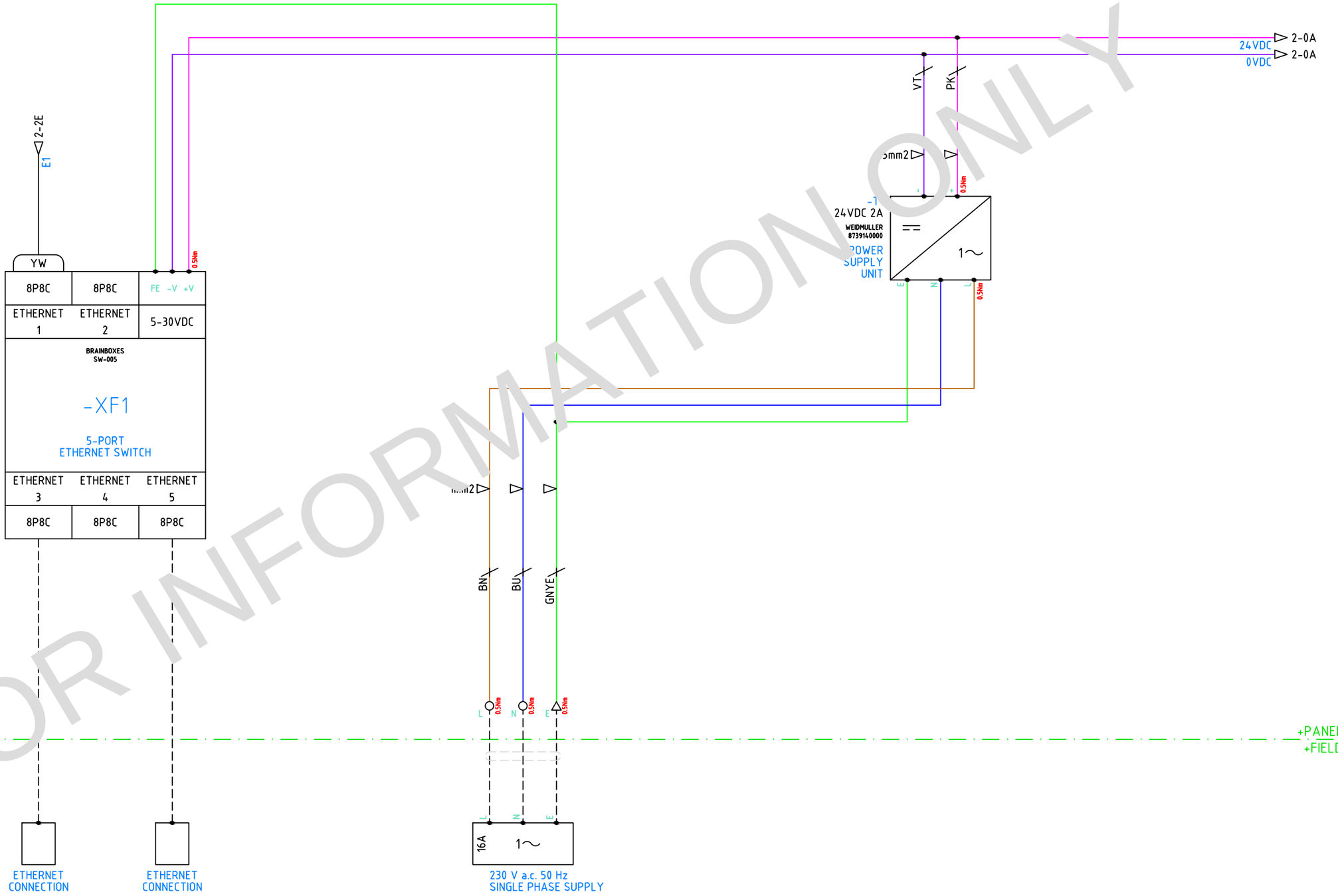
DALI Spur

Msensor

Mains Supply from Lighting Distribution Board

NOTES:- Each LiGO has 8 No. DALI Power Supply Ports - Each Port controls up to a Max of 64 DALI Devices - Each LiGO can Control a Max of 512 DALI Devices if All 8 DALI Legs/Bus are used.
Each Port supports a DALI Leg/Bus going out from the panel to the field in a Radial Circuit (Max 8 legs/Bus per LiGO Controller).
DALI Standards:- Max DALI run = 300m. DALI pairs are Non Polarity Sensitive and are 1.5mm flex for each Core. Max 64 DALI Devices per leg/Bus.
Emergency luminaires can be put onto the same DALI Leg/Bus as the standard Luminaires, and each DALI Leg/Bus Device can be placed on any Virtual Group at commissioning.
* LCM's. If These are required, just connect the LCM to a DALI Leg/Bus and the Mains Supply and loop to each LCM. (8 No. using an 8 Way LCM). Plug in the DALI Devices (Max 64).

* The LiGO utilises DALI control protocol, in order to maximise the benefits available luminaries need to be fitted with DALI Ballasts/Drivers. DALI allows the fittings to be individually addressed and controlled.
* LIGO provides Emergency light monitoring and testing as standard to enable this feature Tridonic EM-Pro emergency or Equivelent Ballast/Drivers must be fitted to all emergency luminaries.
* Sensors to monitor proximity, light level and switches are installed as required. These sit on the DALI network and make up 'virtual groups' whereby control is designed to match exact building use and minimise energy use at all times.
* Each LiGO is capable of controlling up to 512 devices over 8 DALI networks and can be stand alone or networked with with IP or DHCP. Up to 100 LIGO's can be networked together to allow total building control from one point.
* LiGO is contained within a panel will be mounted in the switch room next to the switch boards. This allows wiring to be run from one location and avoids the use of time consuming field mounted LCM's.



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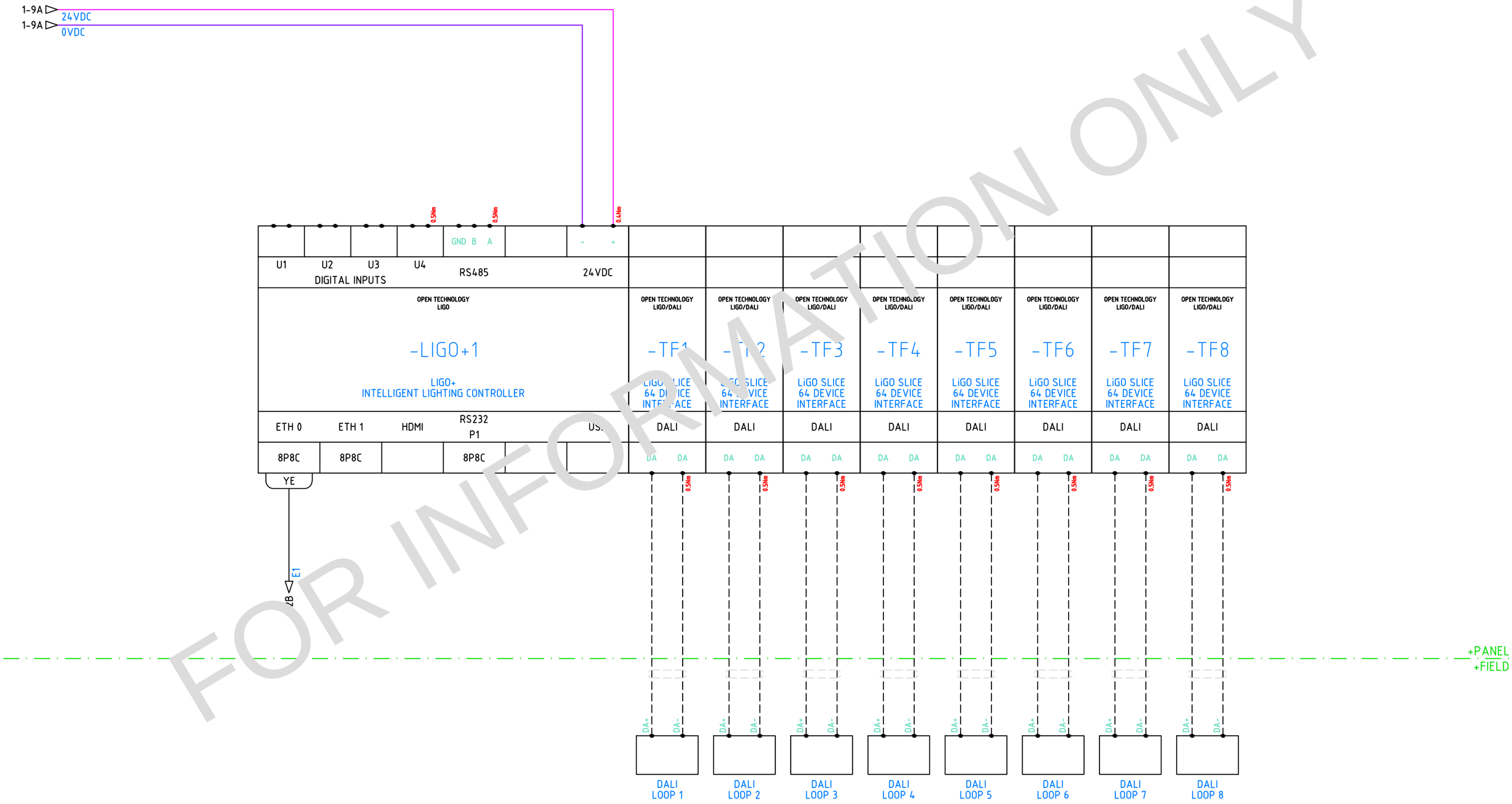
Web www.opentechnologyuk.com

Title	Power Wiring
Description	LiGO Intelligent Lighting Control Box
Order No.	---
Customer	---
Site	---
Drawing No.	LiGO-A9 108VE
Date	29/10/2019
A3	
Revision	I
Status	For Information Only
Designed By	DT
Drawn By	DT
Checked By	AD
Approved By	AD



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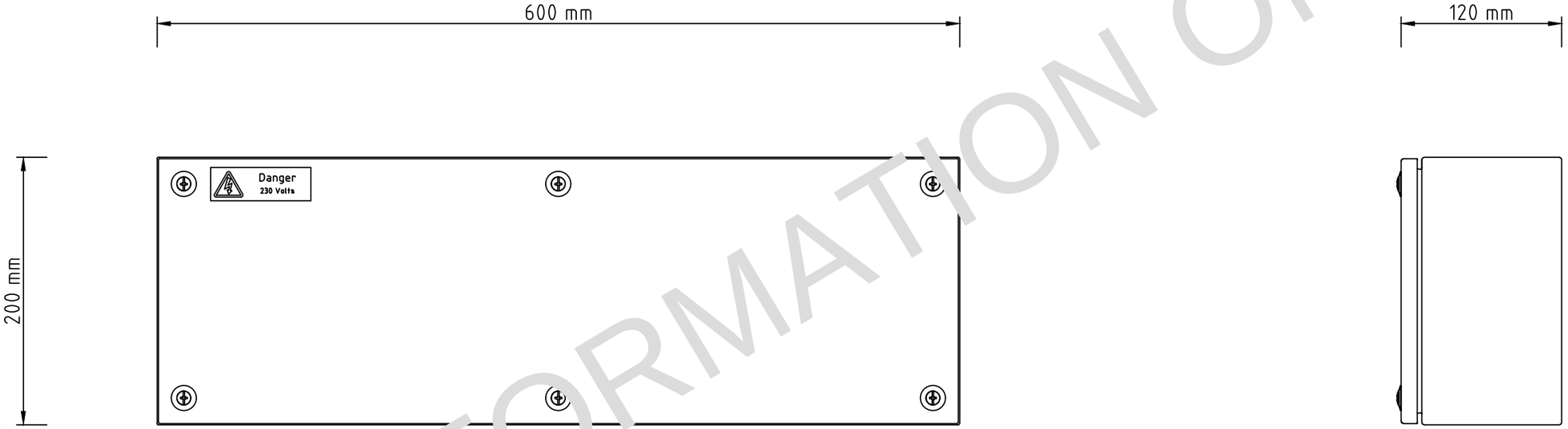
Web www.opentechnologyuk.com

Title	LiGO 1
Description	LiGO Intelligent Lighting Control Box
Order No.	---
Customer	---
Site	---
Drawing No.	LiGO-A9 108VE
Date	29/10/2019
A3	
Revision	I
Status	For Information Only
Designed By	DT
Drawn By	DT
Checked By	AD
Approved By	AD



CABLE ENTRY: BOTTOM

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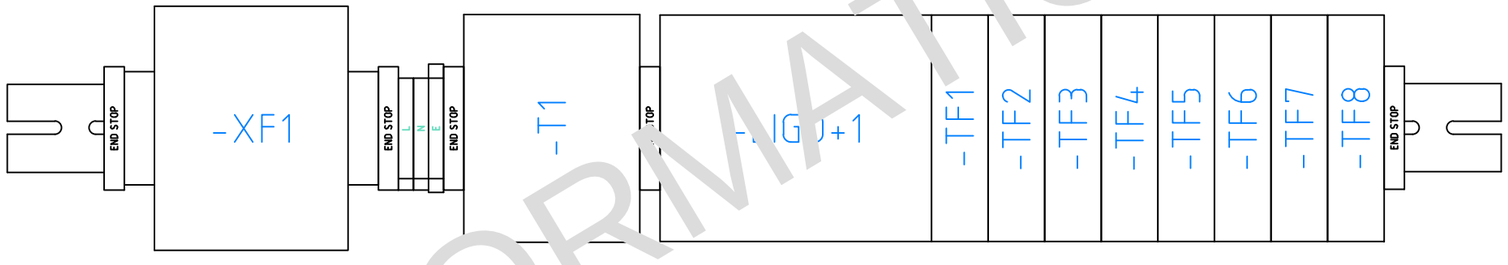
Title	External Layout Drawing
Description	LiGO Intelligent Lighting Control Box
Order No.	---
Customer	---
Site	---
Drawing No.	LiGO-A9 108VE
Date	29/10/2019
Paper	A3
Revision	I
Status	For Information Only

Designed By	DT
Drawn By	DT
Checked By	AD
Approved By	AD



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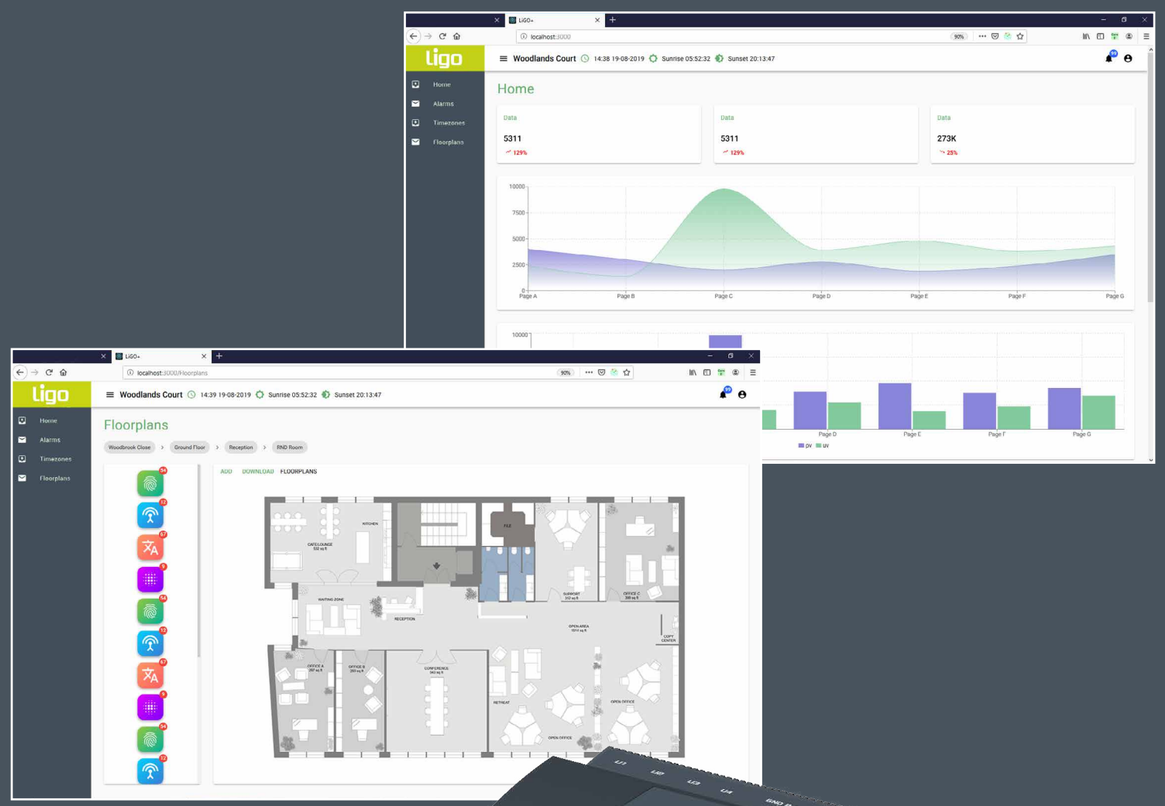
Web www.opentechnologyuk.com

Title	DIN Rail Layout Drawing
Description	LiGO Intelligent Lighting Control Box
Order No.	---
Customer	---
Site	---
Drawing No.	LiGO-A9 108VE
Date	29/10/2019
A3	
Revision	I
Status	For Information Only
Designed By	DT
Drawn By	DT
Checked By	AD
Approved By	AD

ligo+

open technology



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www.opentechnologyuk.com

- SMART LIGHTING CONTROL
- ENERGY MONITORING
- EMBEDDED BUILDING FLOORPLANS
- COLOUR CONTROL AND TUNABLE WHITE LIGHT

GOOD LIGHTING

- Lighting is responsible for 20% of all the electricity consumed by buildings in the UK. Non-domestic lighting accounting for 24 Million tonnes of CO_2 per year.
- LED lighting solutions still waste in excess of 30% of unnecessary consumption without suitable intelligent control.
- Up to 40% extra energy savings can be achieved over and above the use of LED when suitable tuning/scene setting is used with intelligent lighting controls.
- Good workplace lighting is an essential part in developing work environments that support well-being and performance, and reduce the likelihood of employee stress, absenteeism, and industrial accidents.
- Worker controlled lighting and lighting solutions tailored to the individual needs of workers have considerable potential for enhancing employees' work satisfaction and enhancing retention.

Sources: Kuller / UK Health and Safety Executive / Carbon Trust

ABOUT OPEN TECHNOLOGY

Open Technology have developed the LiGO+ specifically to meet today's demanding lighting control schemes. The LiGO+ easily connects with other intelligent building systems and tomorrow's IoT environment.

We work directly with end users, consultants and contractors to ensure the LiGO+ technology gives the lighting control and connectivity, demanded by our customers.

A quick ROI can be achieved based on energy reduction and maintenance savings through improved monitoring and control of your high value LED estate.

With over 10 years' experience in the intelligent lighting controls market, our engineering team will enable the benefits of the rich feature set of LiGO+ to be readily achieved on even the most complex projects.

Alternatively, if you are a lighting supplier, we provide the LiGO+ and support for on-sale, complete with your own branding and features if so required. Please contact us to discuss your requirements further.

Ligo+ Intelligent Lighting Control

Time Control

Lighting output and settings can be matched to your building's exact occupancy times, adapt to changes in daylight saving time and even accommodate public holidays.

Integration

LiGO+ can be easily integrated into Building Management Systems (BMS) or any other 3rd party system that is open protocol - to ensure that all systems work together to deliver full functionality and maximum savings.

Presence/Absence Detection

Lights switch on or off when presence or absence is detected. This delivers optimal energy savings whilst ensuring the building is always ready for use. Run-on timers can ensure that people aren't left in the dark when people are seated and the "corridor hold" feature ensures a room entrance/ exit is lit whilst the room is occupied, essential for the office environment.

Emergency Lighting/Reporting

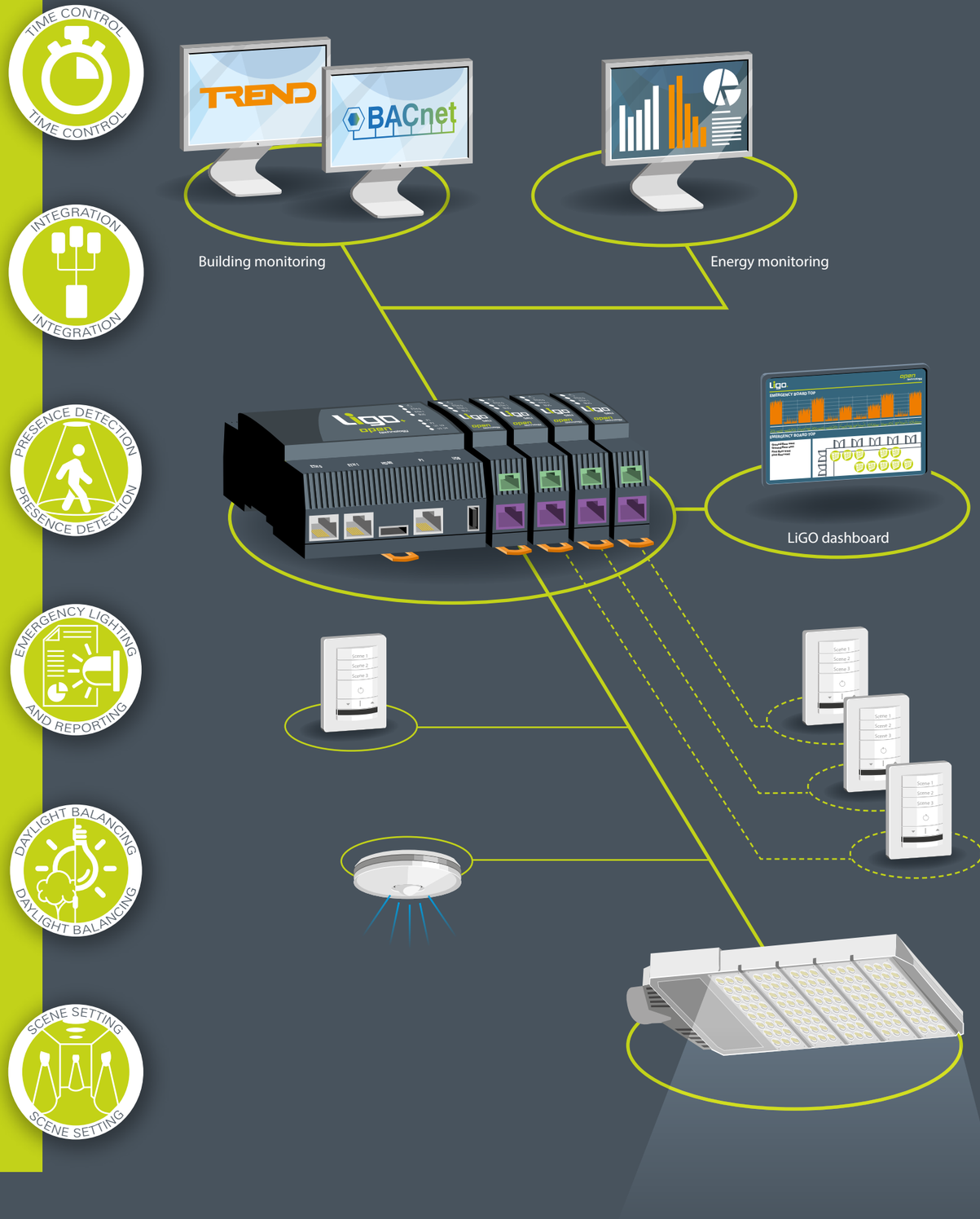
LiGO+'s simple built-in 'Test Scheduler' enables functional and duration tests to be set up then executed automatically. Results can be stored in the system or automatically sent via email. LiGO+ also supports central battery systems according to BS5266-1 BS EN50171 Central Power Supply Systems and BS EN 62034 Automatic Test Systems for Battery Powered Emergency Escape Lighting.

Daylight Harvesting

External light not only allows you to create a more natural, enjoyable environment, it's also free! Automatic switching or dimming ensures light levels respond to maximise and complement the available daylight. Window Edge Dimming saves more energy by proportionally reducing the output of lights near the window.

Scene Setting

Light levels and scene effects can be programmed according to the changing uses of a building. These can then be automatically programmed and controlled via web login or changed at the touch of a button.



Dimming

Light levels can be controlled according to changing uses of the building, for example lowering output when the building is being cleaned in the evenings. This drives further savings whilst ensuring the building is still functional, also dimming the lighting from off to on and on to off can add many more hours of run time to the ballasts. Specialist features such as dusk/dawn dimming control for Pharmco laboratories are available as standard.

Condition Monitoring

LiGO+ continuously monitors every component of the system and records the hours run and output level for each. Any failure in a light fixture is automatically reported and can be used as 'hard evidence' for resolving warranty claims.

Circadian Rhythm Lighting

LiGO+ can utilise circadian rhythm lighting using different colour temperature fittings, altered throughout the day. This affects the biological response of the body in order to increase productiveness and wellness, especially in learning environments.

External Lighting

External lighting is often overlooked within lighting schemes. With LiGO+ a combination of dusk/ dawn times along with outside light sensing can be utilised to either control fixed loads of lighting (relay controlled) or, using DALI fittings, reduce energy by only providing minimum level of light that is required, and increasing when movement is detected.

LED Control – Hours Run/ LED Maintenance

Your LED real estate is one of the largest investments in lighting that a building owner makes, yet many control systems will just treat LED like an incandescent lamp. With LiGO+ we understand LED, and how to get the longest life from your LED estate. With the runtimes of fittings being stored and logged within LiGO+ it's easy to go back to a manufacturer's claim of 50k hours when the fitting has only lasted 800!

Energy Monitoring

LiGO+ can enable energy usage to be estimated through virtual metering or, where sub metering is provided, accurate measurements can be taken to meet legislation and also be used for tenant billing.

WHY LiGO+ IS THE WAY TO GO

Our innovative LiGO+ system is installed in a diverse portfolio of buildings, including small/large retail premises, offices, pharmco laboratories, schools, universities, hospitals, galleries, museums, rail stations and logistic depots, with the common result of achieving impressive cost and energy savings as well as improved environments for the buildings occupants and users. The LiGO+ web pages allow users to set up the system, create reports and adjust settings. It gives users access to a range of easy to use features including: time zone control, emergency override, alarm reporting, energy graphs, and emergency light test reporting with NO ongoing licence or subscription fee.

LiGO+ is based on the manufacturer-independent DALI standard that ensures interchangeability and interoperability of lighting system components. This makes it possible to create flexible, cost-effective and decentralised lighting systems. DALI addressable solutions can function as a standalone system or as part of a building management system. The LiGO+ comes "out the box" with embedded tools and a suite of preprogramed smart lighting control algorithms to quickly group the luminaires, set the scene and optimally control LEDs to derive best performance. Coupled with its ability to connect with, and report to, other building systems make the LiGO+ a winner with installers and users alike.

KEEPING BUILDING DATA SECURE

The Open Technology range of products and software solutions ensures your building data is held, accessed and transferred securely when required. All Open Technology devices and software solutions are password protected and the data transferred to and from them can be via secure FTP and SMTP connections.

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