



PRODUCT DESCRIPTION

eyrise® i350 INVISIBLE PRIVACY GLASS



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INTRODUCTION

eyrise® i350 Invisible Privacy Glass are truly transparent, instantly switchable privacy glass ideal for highly demanding interior partitioning applications. eyrise® i350 privacy glass provide solutions with seamless integration of technology, premium design and comfort, without any compromise on privacy, daylight and interiors.

The features and benefits of eyrise® i350 Invisible Privacy Glass are:

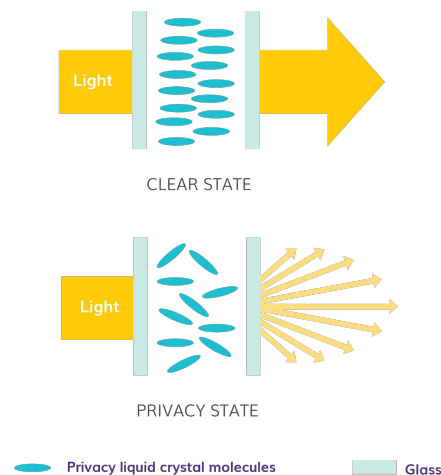
- Exceptional clear state with minimal residual haze at all viewing angles
- Instant switching speed – switches between clear and privacy states in less than one second
- Easy installation, cleaning and minimal maintenance
- Simple plug-and-play setup for switching control
- Possible integration into existing Building Management Systems (BMS) or manual control schemes

PRINCIPLE

Liquid Crystals (LC) form the core of instant switching in eyrise® i350 privacy glass. The liquid crystal molecules are embedded between two glass sheets having a coating of transparent conductive oxide.

Liquid crystal molecules driven by licrivision® technology can change their orientation to regulate the passage of light through them and hence the transparency of glass.

A low voltage is sufficient to change the orientation of liquid crystal molecules and hence switch the glass between clear and privacy states.



licrivision® TECHNOLOGY

Transparency changes with the orientation of LC molecules

SCOPE OF DELIVERY

eyrise® i350 privacy glass is accompanied by essential supporting electronics to ensure an easy and reliable installation. Each eyrise® i350 package consists of:

- eyrise® i350 privacy glass panels
- Privacy control box with switch and cable accessories for plug-and-play control

PRODUCT BUILD-UP

eyrise® i350 privacy glass is a laminated glass unit consisting of an eyrise® cell interlayered between two panes of cover sheet glass. The eyrise® cell is an assembly of liquid crystal molecules enclosed between two glass sheets having a transparent conductive oxide coating.

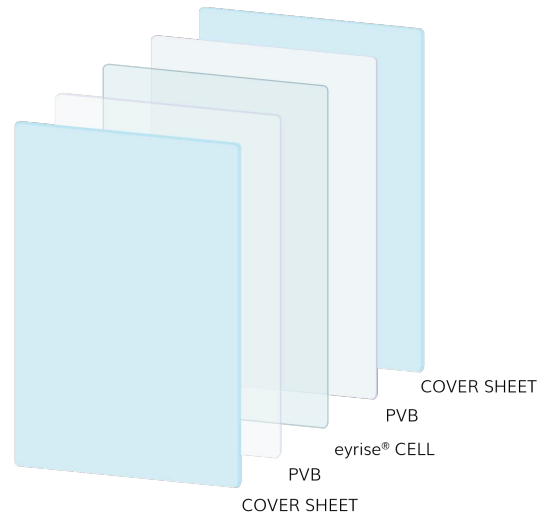
eyrise® i350 privacy glass has an area on its perimeter that is non-switching. Based on the visual appearance of the non-switching area, eyrise® i350 privacy glass is available in two configurations:

- eyrise® i350 Privacy Element

The non-switching area is visually bare and must be covered by a frame on all sides for enhanced appearance.

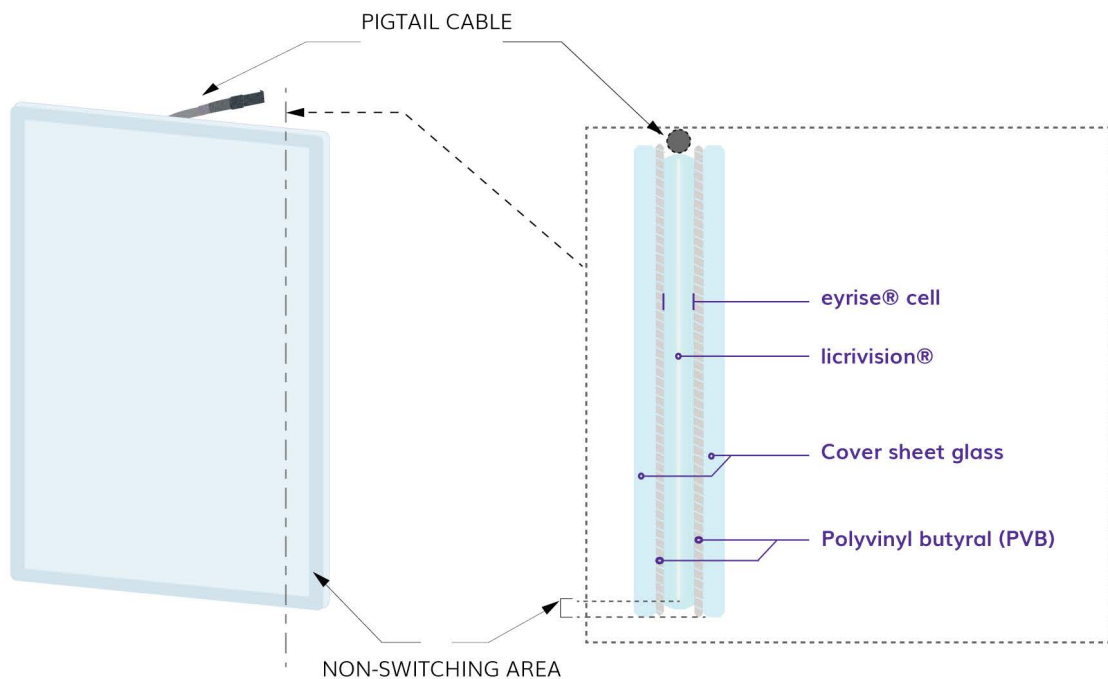
- eyrise® i350 Privacy Edge

The non-switching area is elegantly concealed by a surface enamel coating on the cover sheet panes and hence can be left exposed.



eyrise® GLASS BUILD-UP

eyrise® cell is the fundamental unit of eyrise® i350 invisible privacy glass



eyrise® i350 PRIVACY GLASS

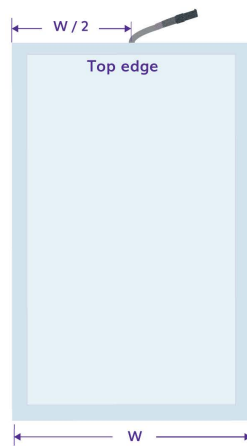
Pigtail cable and non-switching area

PIGTAIL CABLE

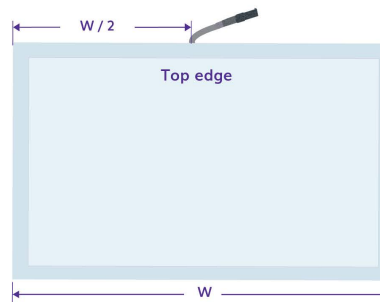
eyrise® i350 privacy glass switches between privacy and clear states by voltage control from the Privacy control box. The eyrise® i350 privacy glass has an attached **pigtail cable** to connect to the control box. The pigtail is always positioned at the middle of the top edge of a glass unit.

eyrise® i350 GLASS PIGTAIL POSITION

The pigtail is always on the top edge with position tolerance of $\pm 20\text{mm}$ from the centre

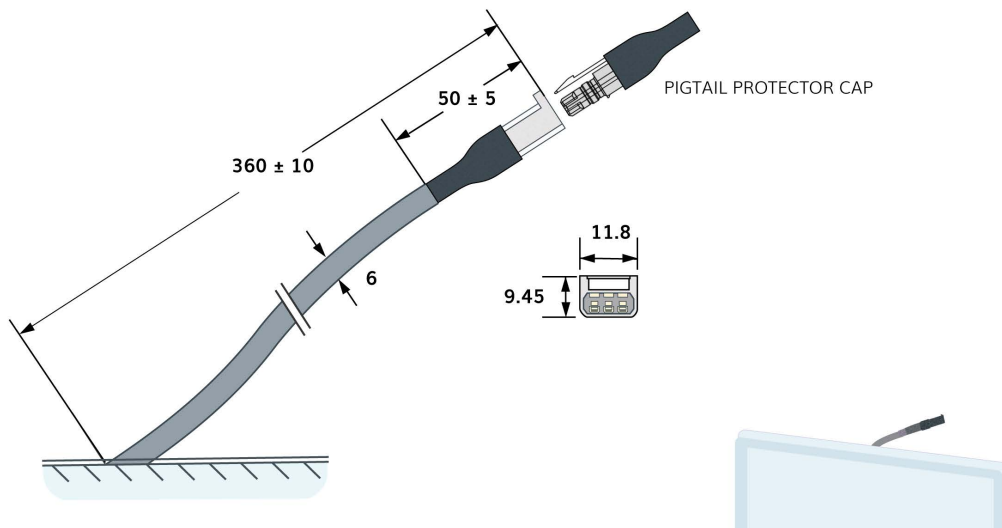


PORTRAIT ORIENTATION



LANDSCAPE ORIENTATION

The pigtail is 36 cm long and has a connector compatible with the eyrise® driver cable for connecting to the Privacy control box.



eyrise® i350 PRIVACY GLASS PIGTAIL DIMENSIONS

All dimensions in mm

FRAME DETAILS

In addition to the applicable guidelines and regulations, framing for eyrise® i350 privacy glass must consider the edge dimensions of the product and cable clearance requirements.

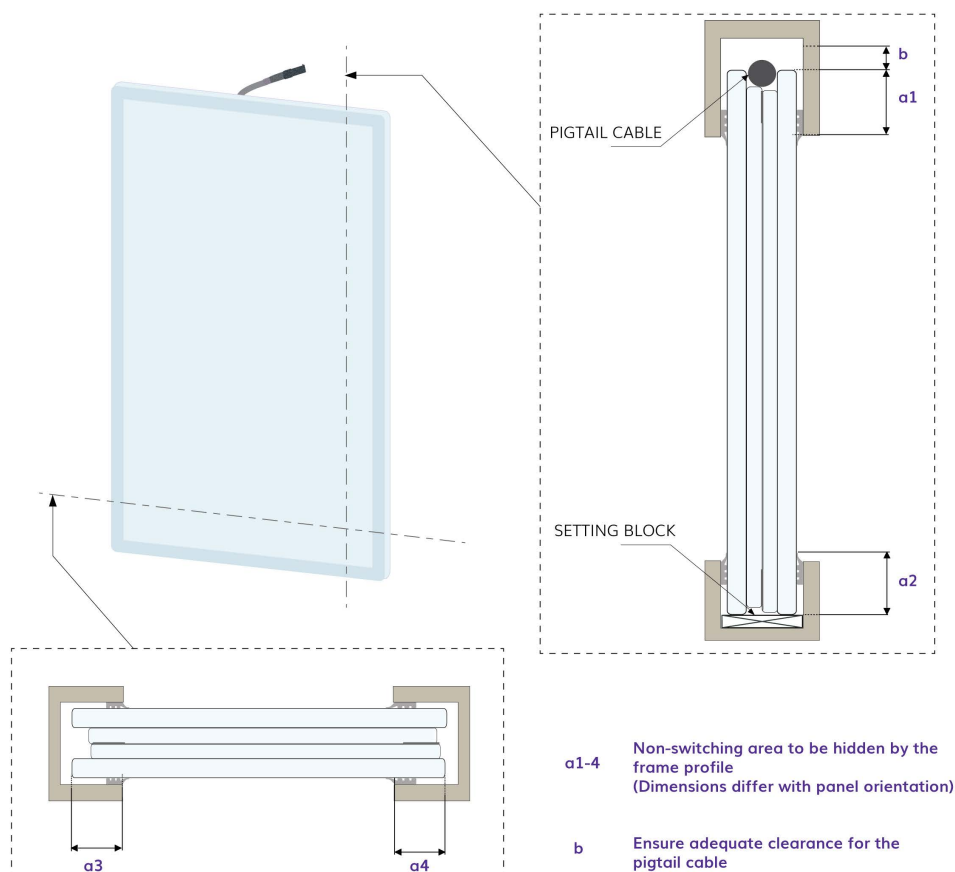
No frame will be supplied; please review framing compatibility with your frame supplier.

eyrise® i350 Privacy Element

eyrise® i350 Privacy Element has a bare non-switching area that must be covered by a suitable frame on all four sides for better visual appeal. In addition to the applicable guidelines and regulations, the frame should allow clearance for passage of the pigtail cable.

FRAMING SYSTEM -SCHEMATIC VIEW

eyrise® i350 Privacy Element



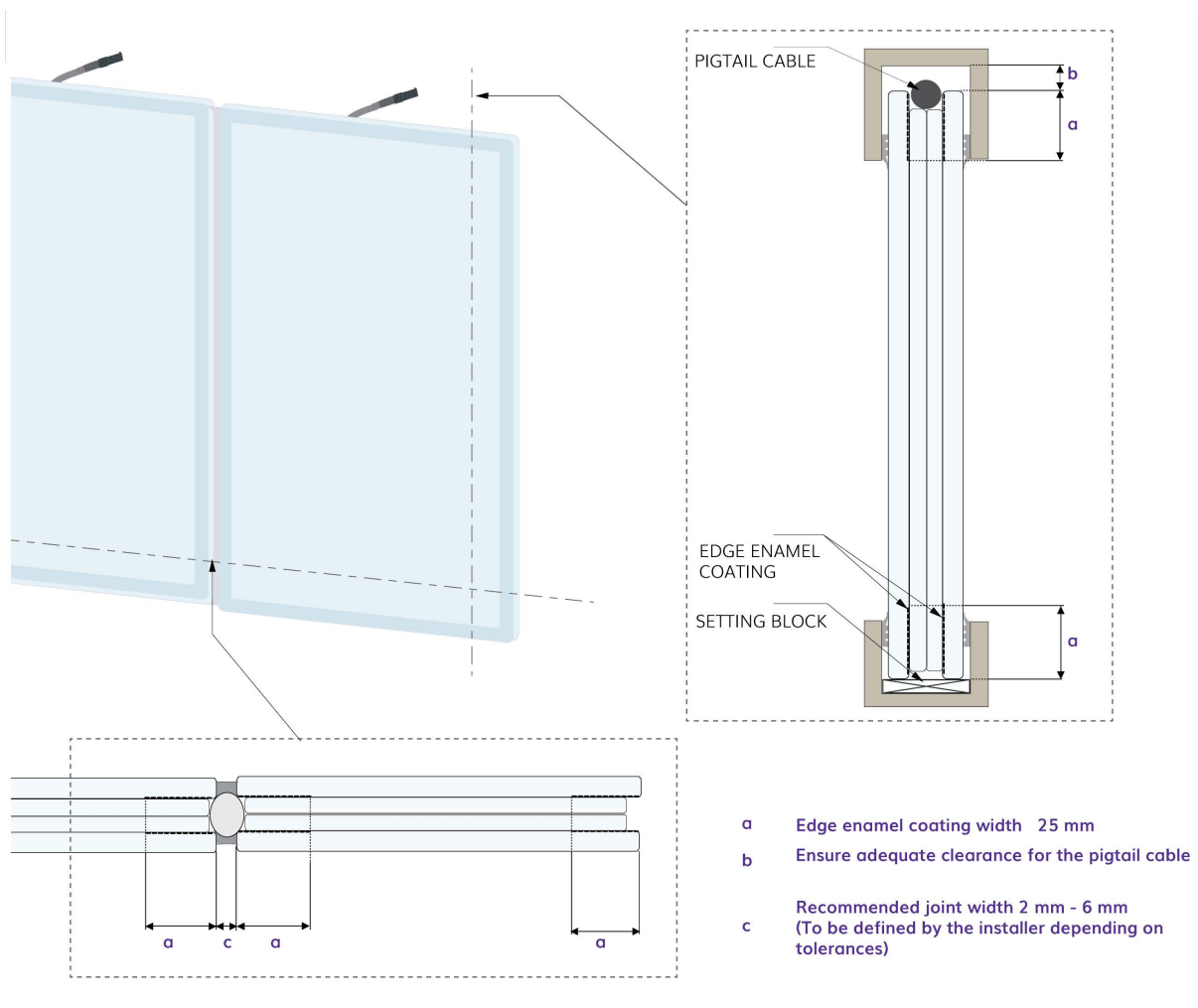
The dimensions of the non-switching area (a1-a4) vary with the panel's orientation. Please refer to the project specifics for dimension details.

eyrise® i350 Privacy Edge

eyrise® i350 Privacy Edge has an optional surface enamel coating of width 25mm on all sides. The surface enamel is applied on both glass cover sheets concealing the non-switching area from both sides. The presence of a surface enamel enhances the visual appeal in installations without vertical frames; such as butt-joint applications.

FRAMING SYSTEM - SCHEMATIC VIEW

eyrise® i350 Privacy Edge



The butt-joint application can be created in different ways. eyrise® i350 privacy glass has a unique corner solution with separate edge dimensions for the butt-joint application. Please contact our sales representative for more details.

TECHNICAL SPECIFICATIONS – eyrise® i350 PRIVACY

		ELEMENT	EDGE
APPLICATIONS		Fully framed	Fully framed and Butt-joint
TOTAL THICKNESS [†]		17 mm	19 mm
WEIGHT		38 kg/m ²	43 kg/m ²
SOUND REDUCTION INDEX $R_{w(C;C_{TR})}$		40(0; -2) dB	41(-1; -3) dB
OUTER COVER GLASS	Type	Annealed low iron glass	Heat-strengthened low iron glass (EN 1863-1)
	Thickness	3 mm	4 mm
	Surface edge enamel coating	Not present	Present
	Edge enamel width (standard)	Not applicable	25 mm
	Edge enamel colour (standard)	Not applicable	Black [‡]
	Glass mark diameter	Not applicable	25 mm
	Glass mark colour	Not applicable	Black
PANEL SIZE (W X H) [§]	Minimum	413 mm x 413 mm	
	Maximum	1508 mm x 2904 mm	
SHAPES		Rectangular	
COLOURS		Neutral tint	
MAXIMUM SWITCHING TIME		One second for the transition between clear and privacy states	
OPTICAL PERFORMANCE	T _{vis} –Transparent (Clear)	83%	
	T _{vis} –Translucent (Privacy)	75%	
	Haze (Clear state)	< 4%	
	Haze (Privacy state)	96%	
U-VALUE		5.0 W/m ² K	
UV TRANSMISSION		< 1%	
CERTIFICATION		EN 14449 for laminated safety glass	
IMPACT SAFETY CLASS		EN12600 class 1(B)1	
OPERATING TEMPERATURE		-20°C to 70°C	
POWER CONSUMPTION		3 W/m ² *	
DRIVING VOLTAGE		48 V RMS	
PIGTAIL (STANDARD)		36 cm with male connector	
eyrise® CELL	Type	Annealed glass	
	Thickness	8 mm	

[§] Varies with panel orientation. Dimensional tolerance is ±3 mm

* Depends on electrical settings

[†] Thickness tolerance: ±1.5 mm

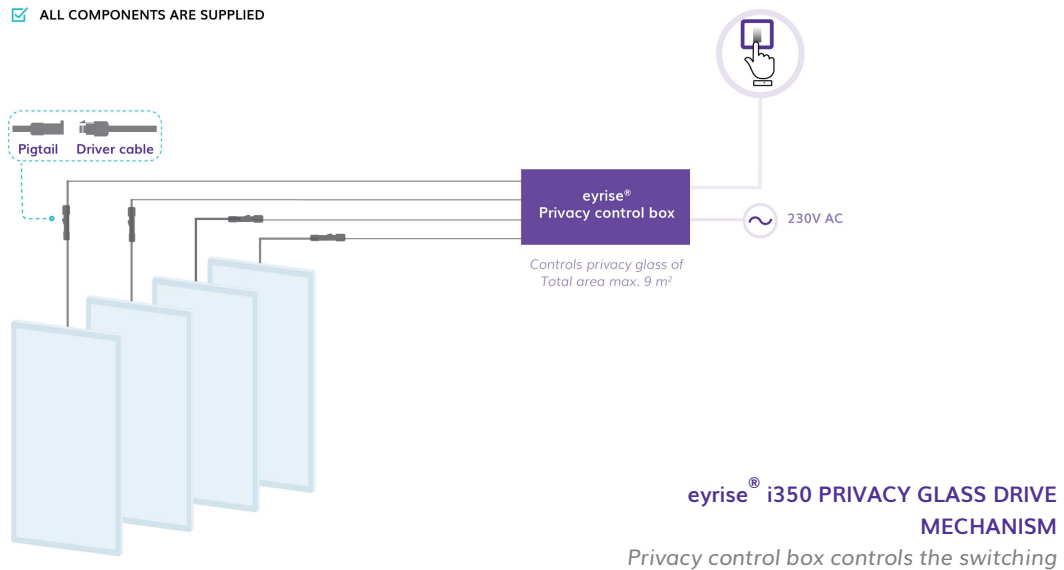
[‡] Contact us for additional colour possibilities

CONTROL SYSTEM

eyrise® i350 privacy glass can be switched instantly between clear and privacy states by electrical control. The **eyrise® Privacy control box** with easy plug-and-play installation and operation controls the switching of eyrise® i350 privacy glass. Each Privacy control box can control up to four eyrise® i350 privacy glass units of total area maximum 9 m².

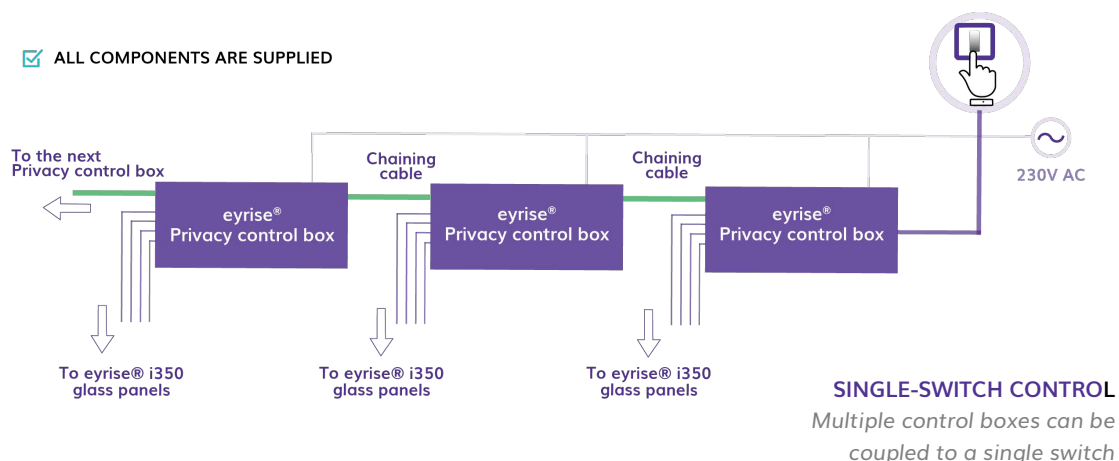
The eyrise® i350 privacy glass units connect to the Privacy control box through a **pigtail - eyrise® driver cable** interconnection. By the flick of a **switch** connected to the Privacy control box, the glass units transform between privacy and clear states.

✓ ALL COMPONENTS ARE SUPPLIED



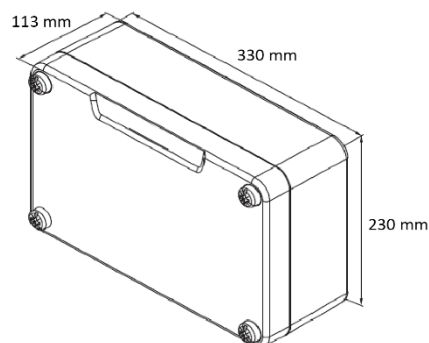
Multiple control boxes can be coupled together and operated by a single switch to simultaneously control all the eyrise® glass panes in a building.

✓ ALL COMPONENTS ARE SUPPLIED



For larger installations controlled by a centralised Building Management System, individual eyrise® electrical components can be assembled to build a tailored control mechanism for the eyrise® i350 privacy glass units. Please contact our sales representative for more information.






PRIVACY CONTROL BOX



TECHNICAL SPECIFICATIONS - eyrise® PRIVACY CONTROL BOX

GLASS DRIVING CAPACITY	Maximum area	9 m ²
	Output channels	4
DIMENSIONS	330 mm x 230 mm x 113 mm	
POWER SUPPLY	100V – 240V AC	
MAX. POWER CONSUMPTION	175 W	
OPERATING TEMPERATURE	-5°C to 35°C (23°F to 95°F)	
STORAGE TEMPERATURE	-40°C to 85°C (-40°F to 185°F)	
RELATIVE HUMIDITY	< 95% non-condensing	
MAX. OPERATING ALTITUDE	2000 m above sea level	
WEIGHT	5.25 kg	
PRODUCT CERTIFICATION	CE certified	

ORDERING INFORMATION

	eyrise® Privacy control box	REC.PRCT.002.01
	eyrise® driver cable (length 10m)	ZDC.LiYY.10m.01
	eyrise® chaining cable (length 5m)	ZEC.2996.05M.03
	eyrise® switch cable (length 5m)	ZEC.5014.05M.03
	Switch	ZPS.PRSW.wit.03

WARRANTY PERIOD

eyrise® i350 privacy glass	5 years from the date of delivery
Supplied electronics	2 years from the date of delivery

CONTACT INFORMATION

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