EY-SU 358: Push-button unit for room operating unit, ecoUnit358

EY-SU358F081

How energy efficiency is improved

Individual control of lights and window blinds for energy optimisation in the room

Features

- Part of the SAUTER EY-modulo system family
- Push-button unit to supplement the ecoUnit355 (EY-RU 355)
- Various designs and colour versions in black and white
- For controlling window blinds and lighting (on/off, dim)
- 2, 4 or 8 button functions
- Labelling insert for individual labelling
- Fits into frame with 55 x 55 mm aperture
- Frame can be ordered as an accessory

Technical data

Power supply		
	Power supply	From ecoUnit355
	Current consumption	≤ 2.5 mA (at 24 V= for ROU) ≤ 3 mA (at 15 V= for ROU) ≤ 8.5 mA (at 5 V= for ROU)

Ambient conditions		
	Operating temperature	0...45 °C
	Storage and transport temperature	-25...70 °C
	Admissible ambient humidity	10...85% rh, no condensation

Parameters		
Functionality	Position LED	2; green, red, orange, off; can be connected parallel to EY-RU 355 LED
Connection	Line	3-wire (V, C, DQ)
	Length	≤ 30 m (can be installed remotely from ecoUnit355)
Labelling	Labelling insert	1 to 3, depending on type; Colour: silver (similar to Pantone 877 C)

Construction		
	Fitting	Recessed/surface-mounted (see list of accessories)
	Dimensions W x H x D	55 × 55 × 23 mm
	Weight	0.04 kg
	Buttons	F021: two (dual buttons, dummy buttons) F041: four (dual buttons) F081: eight (single buttons)

Standards and directives		
	Type of protection	IP30 (EN 60529)
	Protection class	III (EN 60730-1)
	Environment class	3K3 (IEC 60721)
CE conformity according to	EMC Directive 2014/30/EU	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4

Overview of types

Type	Description	Colour
EY-SU358Fx21	Push-button unit, ecoUnit358, 2T	x=0, traffic white x=A, jet black
EY-SU358Fx41	Push-button unit, ecoUnit358, 4T	x=0, traffic white x=A, jet black
EY-SU358Fx81	Push-button unit, ecoUnit358, 8T	x=0, traffic white x=A, jet black

Accessories

Type	Description
0940360005	Terminal RU-SU, push-in, @3P (V,C,DQ), 10 pcs. (accessory for EY-SU 358)
0940360007	Terminal RU-SU, screw, @3P (V,C,DQ), 10 pcs. (optional accessory for EY-SU 358)
0940360006	Terminal and cable RU-SU, @3P (V,C,DQ), 15 cm, 10 pcs. (optional accessory for EY-SU 358)
0940240***	Frames, mounting plates and adaptors for third-party frames: see product data sheet PDS 94.056
0940240103	Frame, single, recessed, white (RAL9016), 10 pcs.
0940240104	Frame, single, recessed, black (RAL9005), 10 pcs.
0940240703	Single mounting plate (10 pcs.)
0940240203	Frame, double, recessed, white (RAL9016), 10 pcs.
0940240204	Frame, double, recessed, black (RAL9005), 10 pcs.
0940240802	Mounting plate, double, for recessed fitting (10 pcs.)
0940240302	Frame, single, surface-mounted, white (RAL9016), 10 pcs.
0940240303	Frame, single, surface-mounted, black (RAL9005), 10 pcs.
0940240402	Frame, double, surface-mounted, white (RAL9016), 10 pcs.
0940240403	Frame, double, surface-mounted, black (RAL9005), 10 pcs.
0940001501	Blank foil for EY-SU 358, silver, (10 pcs.)
094013****	Buttons as accessories/spares, 10 pcs. (see product data sheet PDS 94.056)

Description of operation

The push-button unit ecoUnit358, EY-SU 358 is an expansion module for the ecoUnit355 room operating units of the ecoUnit 3 series.
The EY-SU 358 is used with room controllers of the ecos 5 or ecos311 system family.
The EY-SU 358 has up to eight button functions. The button operation is evaluated by the associated ecoUnit355 room operating unit.

Intended use

This product is only suitable for the purpose intended by the manufacturer, as described in the "Description of operation" section.
All related product regulations must also be adhered to. Changing or converting the product is not admissible.
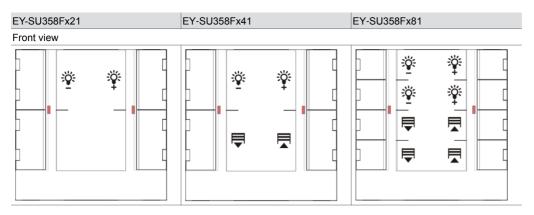
Product types

The various device types differ in the number and size of the active and passive buttons.
The EY-SU358Fx21 variant has two active dual buttons (top, right and left) and two passive dual dummy buttons (bottom, right and left).
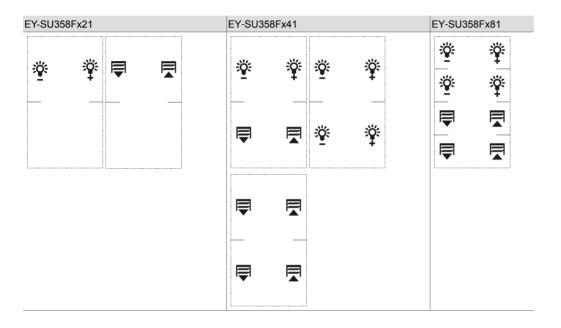The EY-SU358Fx41 variant has four active dual buttons.
The EY-SU358Fx81 variant has eight active single buttons.

EY-SU358Fx21	EY-SU358Fx41	EY-SU358Fx81

Front view

Labelling inserts

The following labelling inserts are included in the scope of delivery:

EY-SU358Fx21	EY-SU358Fx41	EY-SU358Fx81

Engineering and fitting notes

CAUTION!
Electrical devices may only be installed and fitted by a qualified electrician.

Fitting

The EY-SU 358 push-button unit is suitable for recessed and surface mounting. Product data sheet PDS 94.056 shows the fitting options and the accessory material required. Details on the recessed junction boxes can also be found in the fitting instructions for the frames (see accessories).

Note
The mounting plate is screwed onto a recessed junction box. The device insert is placed on the frame and connected to the mounting plate by being pressed in.

Connection to the EY-RU 355 room operating unit

The EY-SU 358 is connected to the EY-RU 355 with a 3-core connection and can only ever be used in conjunction with this device. The 15 cm long connection cable with a 3-pin plug (on the EY-RU 355) is not included in delivery and can be ordered as accessory 0940360006 "Terminal and cable RU-SU, @3P (V,C,DQ), 15 cm, 10 pcs.".
Two EY-SU 358 with the same button assignment or function can be connected in parallel. The EY-SU 358 can be installed up to 30 m (total line length) away from the EY-RU 355. If the EY-SU 358 is installed remotely with a 3-core cable wire, the accessory 0940360005 "Terminal RU-SU, push-in, @3P (V,C,DQ)" must also be ordered for the room operating unit.

If the EY-SU 358 is installed remotely with a 3-core stranded cable, it is advisable to use the accessory 0940360007 "Terminal RU-SU, screw, @3P (V,C,DQ)".

> **Note**
> The EY-SU 358 is connected to the EY-RU 355 room operating unit with a 3-core cable.
> If EY-RU 34x and EY-SU 306 devices are replaced, the 2-core cable must be replaced with a 3-core cable.
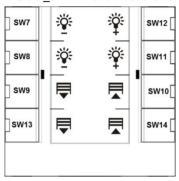
Addressing

The EY-SU 358 is always connected to an EY-RU 355 and can only be used in conjunction with this device. Separate device addressing is therefore not required.

Application

Use with EY-modulo 3 (ecos311) and EY-modulo 5 (ecos 5)

The buttons are read in with the "ROOM_UNIT" firmware module on the ecos controller and provided for further processing in the ecos.

To ensure compatibility with the ecoUnit306 (EY-SU 306), the buttons are assigned to the "ROOM_UNIT" module as follows:

SW13 and SW14 can only be used if the structure parameter for the EY-RU 355 is set in the "ROOM_UNIT" module.

The two active switching elements under a dual button are logically linked with OR on the room operating unit due to the parameters set in the "ROOM_UNIT" module. This means custom button combinations can also be created with buttons from the accessory range.

Further details can be found in the data sheet (PDS) of the ecoUnit355 and the online help for the function module in CASE.

Using multiple switch units

Up to two EY-SU 358 can be connected in parallel. When the same button is pushed simultaneously, only one button signal is evaluated.

However, simultaneous operation of the two push-button units is possible. The maximum cable length with both push-button units to the EY-RU 355 must not exceed 30 metres.

Position LEDs

Skylights can be operated using the EY-SU 358. The position LEDs ensure that the push-button unit is easy to find even in the dark.

The two position LEDs are connected in parallel with the LED of the room operating unit.

Additional information

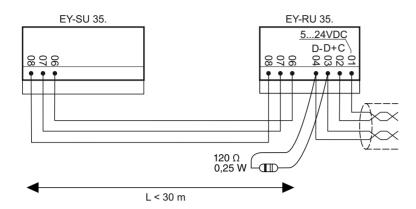| Fitting instructions	MV P100017203
Declaration on materials and the environment	MD 94.037

Disposal

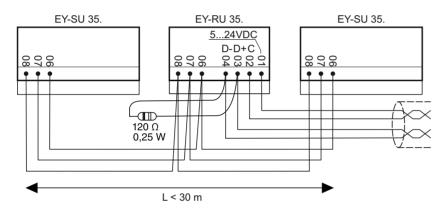When disposing of the product, observe the currently applicable local laws.

More information on materials can be found in the Declaration on materials and the environment for this product.
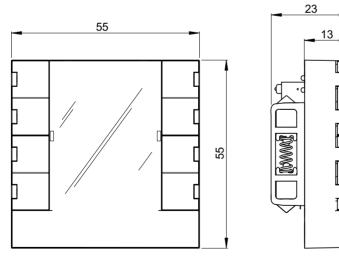
Connection diagram
Connection with EY-RU 355:

EY-SU 35.

EY-RU 35.

5...24VDC
D- D+ C

08 07 06

08 07 06 04 03 02 01

120 Ω
0,25 W

L < 30 m

Connection with EY-RU 355 (parallel operation of two EY-SU 358):

EY-SU 35.

EY-RU 35.

EY-SU 35.

5...24VDC
D- D+ C

08 07 06

08 07 06 04 03 02 01

08 07 06

120 Ω
0,25 W

L < 30 m

Dimension drawing

Push-button unit

55

23

13

55

Labelling insert

25,30 mm

44,20 mm