Cassette awning
markilux MX-1 compact

A compact designer cassette awning that meets the highest architectural demands.

markilux.com

markilux
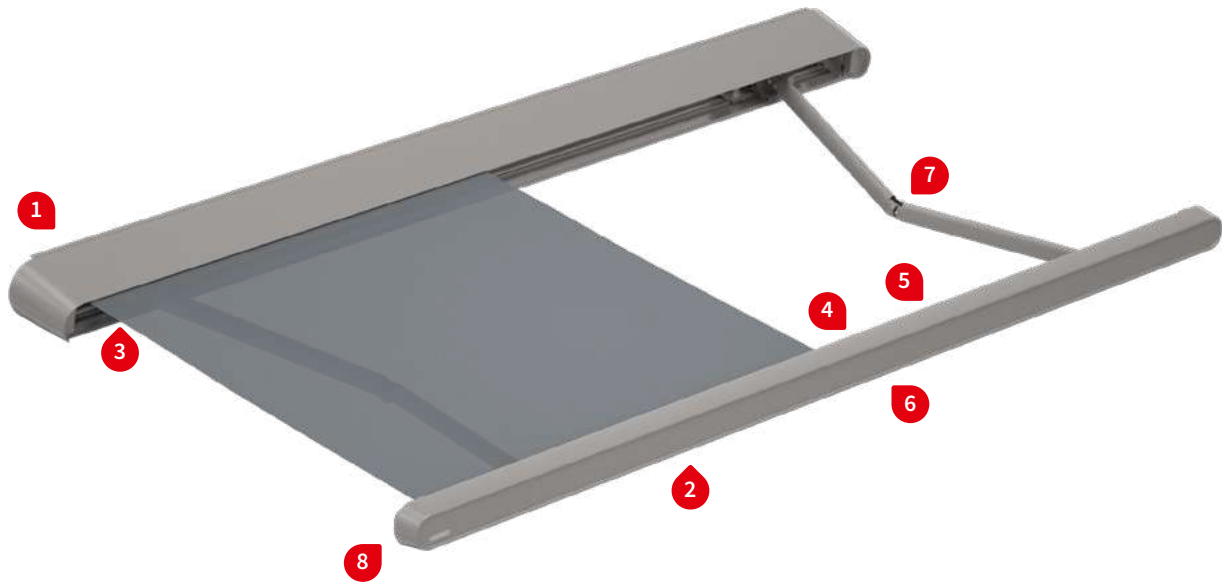
safe timeless beautiful

01

02

03

04

05

06

07

08

09

10

11

12

13

14

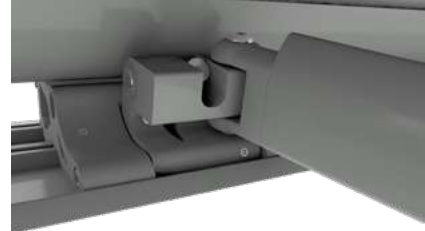15

16

17

Product characteristics

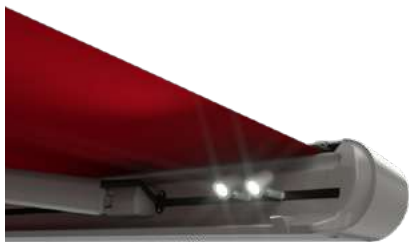**1** face fixture, LED-Spots in the cassette [1]

2 drop valance, during extension [1]

3 arm bearer with tilt device technology, integrated windlock mechanism

4 LED spotlights in the front profile [1]

5 LED-Line in the front profile [1]

6 LED ambient lighting in the front profile in 5 colour shades [1]

7 bionic tendon and hidden cable conduits in the arms

8 hidden gutter with lateral water spouts

1) optional configuration

Product characteristics

Description

- full cassette awning with harmoniously crafted features and a multitude of accessory options that provide both light and shade.

Special features

- radio-controlled motor io as standard
- option of shadeplus up to a projection of 365 cm – vertical protection against low-lying sun and inquisitive glances integrated into the front profile, can be operated by radio remote control
- lighting options can be combined: LED-Spots at the bottom of the housing, directional LED-Spots or an LED-Line light tube in the front profile, LED ambient lighting behind the front panel – individual lighting options for an appealing atmosphere in the evening
- various screen profile and awning colours can be combined
- screen profile also available with exclusive coating in the "Selection MX colour selection"
- option of a silentec motor – motor noise is appreciably reduced
- the tilt device technology with integrated windlock mechanism functioning as arm bearers ensures the awning closes cleanly regardless of the pre-set pitch
- awning fits flat against the wall

Dimensions

- cassette in the standard version: depth 376 mm, height 214 mm
- single unit: minimum width 201 cm at the smallest projection of 165 cm,
                          maximum width 700 cm at the largest projection of 415 cm

Roller tube and lateral bearings

- round roller tube Ø 85 mm with keyway, galvanised steel – excellent stability, ensures near perfect cover performance even at the largest widths
- the inside of the cassette side cap functions as the bearing for the roller tube, made of aluminium, powder coated

Awning profiles

- extruded aluminium, in façade quality, powder coated
- cassette in two parts with continuous fixture keyways
- front profile with rain gutter and smooth front panel
- screen profile made of aluminium, powder coated, or of high quality perspex, transparent and dyed all the way through

Folding arms

- profiles in extruded aluminium, in façade quality, powder coated
- moving parts made of drop-forged aluminium - the arms are therefore extremely fracture resistant
- pivot bolts in stainless steel run in Teflon-coated bronze bushes - practically maintenance free, virtually silent and extremely hard wearing
- power transference for cover tension via the innovative markilux bionic tendon at the elbow joint, made of high tensile, high tech fibres – low in friction, noiseless, insensitive to corrosion and UV resistant,tested by the Fraunhofer Institute

Side caps

- the designer end caps for the cassette are made of high-quality plastic, powder coated
- the designer end caps for the front profile are made of high-quality plastic, powder coated, with water drainage holes

Fixture brackets

- face fixture
- extruded aluminium, powder coated
- pitch range 5°–25°
- spacer plates, stand-off brackets and other accessories are available

01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
17

Frame and front panel colours

markilux frame colours without surcharge

| traffic white RAL 9016 | metallic aluminium RAL 9006 | grey brown, similar to RAL 8019 |

off-white textured finish, 5233 [1)]   stone grey metallic, 5215 [1)]   anthracite metallic, 5204[1)]

Havana brown textured finish, 5229 [1)]

Non-standard powder-coated finish

Bespoke frame colours at a surcharge – matt, metallic and pearl finishes as well as other colour ranges (DB, Tiger etc.) on request. All frame colours are available at a surcharge with enhanced corrosion protection.

Colours may differ slightly from those depicted in both hue and finish.

1) textured finish

Combination Possibilities

All standard or ambiente lighting front panel colours can be freely combined with the standard frame colours.

Additional Selection MX screen profile colours

Recommended colour combinations²⁾

SMX-01 Copper green with patina
Frame Anthracite metallic 5204
Awning cover 310 58

SMX-02 Brass with dark patina
Frame Off-white textured finish 5233
Awning cover 324 49

SMX-03 Bronze dark-patinated
Frame Havana brown textured finish 5229
Awning cover 309 47

SMX-04 Matt black / silver effect paint
Frame Anthracite metallic 5204
Awning cover 310 28

SMX-05 Matt white / silver effect paint
Frame Off-white textured finish 5233
Awning cover 310 09

SMX-06 Silver grey effect paint
Frame Stone grey metallic 5215
Awning cover 310 18

SMX-07 Amber orange metallic matt
Frame Havana brown textured finish 5229
Awning cover 314 83

SMX-08 Pebble beige metallic matt
Frame Off-white textured finish 5233
Awning cover 314 87

SMX-09 Ruby red metallic matt
Frame Anthracite metallic 5204
Awning cover 325 13

SMX-10 Emerald green metallic matt
Frame Havana brown textured finish 5229
Awning cover 325 16

Notes on selecting colours from markilux Selection MX

Every screen profile in the Selection MX colour selection with a coating is unique. In a complex procedure, an exclusive look is created with several layers of paint.During the process, the resulting colour and colour structure are influenced by different factors.

For technical reasons, a slight shading effect, deviations in the degree of gloss and colour as well as small variations in colour between coats of paint in the same tone can occur. The colour structure is always unique, particularly in the case of multi-layer coatings.
The mixed colour tone SMX-10 Emerald green metallic is an interference colour, which has an iridescent effect depending on the fall of the light and the viewing angle.

The Selection MX screen profile colours can be combined freely with all frame colours.

Colours may differ slightly from those depicted in both hue and finish.

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17

LED ambient lighting

During the daytime, switched off

light ivory, similar to RAL 1015   yellow, similar to RAL 1003   red, similar to RAL 3003

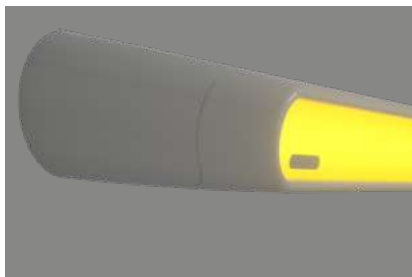traffic white, similar to RAL 9016   yellow green, similar to RAL 6018

During the evening, switched on

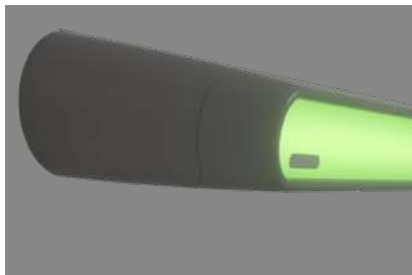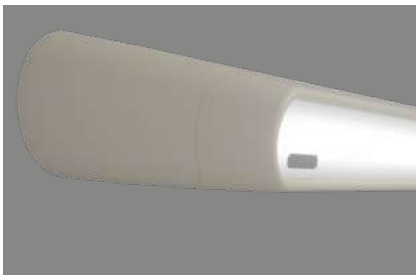light ivory, similar to RAL 1015   yellow, similar to RAL 1003   red, similar to RAL 3003

traffic white, similar to RAL 9016   yellow green, similar to RAL 6018

Colours may differ slightly from those depicted in both hue and finish.

Dimensions and configuration options

Single unit

Order dimensions		Overall awning width											Minimum width — Motor			
		250	300	350	400	450	500	550	600	650	700		⊂2	⁺⊂2	⊂3	⁺⊂3
		201–250	251–300	301–350	351–400	401–450	451–500	501–550	551–600	601–650	651–700					
H	165	1)											214	201	—	—
	215	—	1)										264	251	—	—
	265	—	—	1)									314	301	—	—
	315	—	—	—	1)								364	351	—	—
	365	—	—	—	—	1)				1)			427	414	661	648
	415 2)	—	—	—	—	—	1)		—	—	1)		477	464	—	698

dimensions in cm

1) = please note the minimum widths!
2) = drop valance not available
H = extension

◻ = 2 folding arms, 2 brackets
◻ = 2 folding arms, 3 brackets, 1 rolltex bearing
◻ = 3 folding arms, 4 brackets, 2 rolltex bearings

⊂2 = 2 standard arms
⁺⊂2 = 2 bespoke arms (surcharge)
⊂3 = 3 standard arms
⁺⊂3 = 3 bespoke arms (surcharge)

Operation	standard	optional
crank handle	—	—
spring-assisted crank handle	—	—
hard-wired motor	—	✓
silentec motor (optionally with an external io / RTS receiver) 1)	—	✓
radio-controlled motor io, 868 MHz	✓	—
radio-controlled motor RTS, 433 MHz	—	✓
radio-controlled motor RTS, 433 MHz with manual override 1)	—	—

1) for awnings with a maximum of 2 arms

Coupled Awning

not available

Awning cover	fabric range no.	standard	optional
sunvas	301.. / 309..–315..	✓	—
perla	370 ..	—	✓
sunsilk	324.. / 325.. / 328.. / 369..	✓	—
perla FR	374.. / 375..	—	✓
perfotex	331.. / 332..	—	—
transolair	338..	—	—
vuscreen Alu	317..	—	—
Soltis Perform 92	92-20..	—	—
glass fibre screen	272..	—	—
valance 1), height 20 cm		—	✓

1) only for drop valance

Shadeplus / drop valance 1)	standard	optional
height 170 cm		
max. projection 365 cm		
crank handle	—	—
hard-wired motor	—	✓
radio-controlled motor io, 868 MHz	✓	—
radio-controlled motor RTS, 433 MHz	—	✓
cover	sunvas / sunsilk / transolair / vuscreen Alu	

1) Only available in plain seamless fabrics (oversized, fabric width > 120 cm) or in plains with a horizontal joint (fabric width 120 cm).
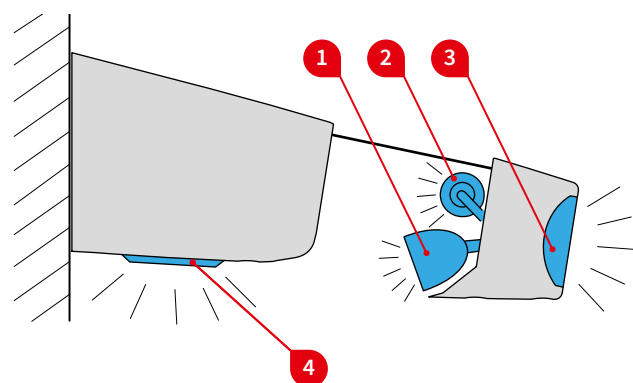
01

Optional accessories

drop valance, motor operation
LED-Spots in the cassette
LED-Line [1] in the front profile
LED-Spots [1] in the front profile
LED-ambiente lighting in the front profile
valance
infrared heater 2000 W / 2500 W
Infrared heater 2500 W with integrated radio-controlled receiver 868 MHz io

02

03

04

05

1) LED-Line and LED-Spots cannot be combined with one another.

06

N.B! Important background information can be found in the chapter "Optional Accessories".

07

08

Fixture options

face fixture bracket 280 × 180 mm	72611.
face fixture bracket A 300 × 180 mm	72714.
spreader plate B 300 × 400 × 12 mm	75327.
stand-off bracket 80–300 mm	77970.

Lighting options

Lighting options

1	LED-Spots [1] in the front profile
2	LED-Line [1] in the front profile
3	LED-ambiente lighting in the front profile
4	LED-Spots in the cassette

1) LED-Line and LED-Spots cannot be combined with one another.

Control	standard	optional
on/off switch	—	✓
radio-controlled dimmer io 868 MHz	✓	—
radio-controlled dimmer RTS 433 MHz	—	✓

09

10

11

12

13

14

15

16

17

1 / **4** Technical specification LED-Spots

Operating voltage	230 V, 50 Hz
Power output of one LED spotlight	5 W
Light source	LED (12 V)
Number of transformers	1 unit
Light temperature	warm white
IP protection class	IP 44
Service life	approx. 20.000 h

2 / **3** LED-Line / ambient lighting

|	
Operating voltage	230 V, 50 Hz
power output per metre	10 W [1]
Light source	LED (12 V)
number of LEDs	120 pieces / m [2]
Number of transformers	1 unit
Light temperature	warm white
IP protection class	IP 44
Service life	approx. 15.000 h [3]

In the case of LED ambient lighting in awning widths > 600 cm:

1) 9 W / m

2) 90 pcs / m

3) approx. 20.000 h

1 LED spotlight in the front profile – distribution table

Number of the LED spotlights

2 folding arms

2	
4	
4	
6	

3 folding arms

6	
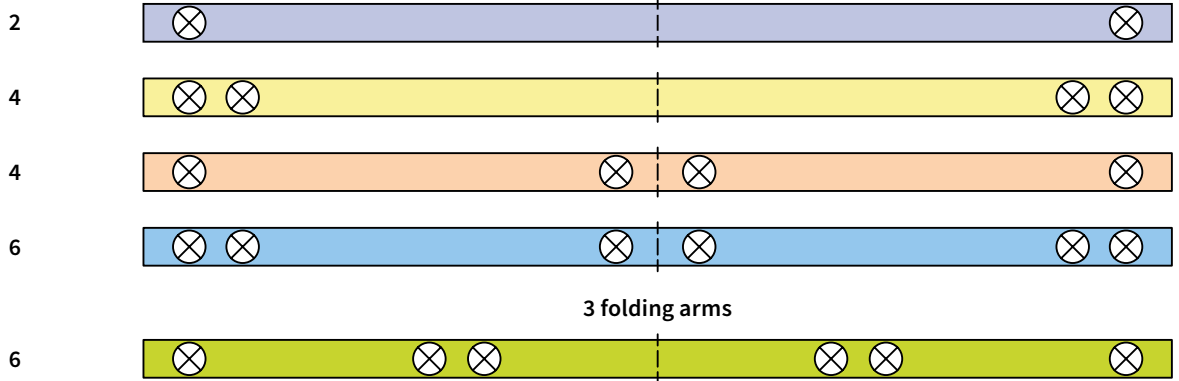
1 Number and distribution of the LED spotlights in the front profile

Overall awning width	Drop					
	165	215	265	315	365	415
228–247	2	—	—	—	—	—
248–250	4	—	—	—	—	—
251–262	—	—	—	—	—	—
263–277	4	—	—	—	—	—
278–282	4	2	—	—	—	—
283–297	6	2	—	—	—	—
298–300	6	4	—	—	—	—
301–312	—	—	—	—	—	—
313–327	4	4	—	—	—	—
328–332	4	4	2	—	—	—
333–347	6	6	2	—	—	—
348–350	6	6	4	—	—	—
351–358	—	—	—	—	—	—
359–378	4	4	4	—	—	—
379–397	6	6	6	2	—	—
398–400	6	6	6	4	—	—
401–418	4	4	4	2	—	—
419–440	6	6	6	4	—	—
441–450	6	6	6	4	2	—
451–458	4	4	4	4	2	—
459–460	6	6	6	6	2	—
461–490	6	6	6	6	4	—
491–500	6	6	6	6	4	2
501–518	4	4	4	4	4	2
519–550	6	6	6	6	6	4
551–568	4	4	4	4	4	—
569–600	6	6	6	6	6	—
601–650	6	6	6	6	—	—
651–700	6	6	6	—	—	—

dimensions in cm

01

4 **Number and distribution of the LED-Spots in the cassette**

Overall awning width	No. of spotlights	LA	LA (g)
203–250	2	103	103
251–300	3	82	164
301–350	3	103	206
351–400	4	82	246
401–450	4	103	309
451–500	4	103	309
501–550	6	82	410
551–600	6	82	410
601–650	6	103	515
651–700	6	103	515

dimensions in cm

Cable exit point at bottom (standard)
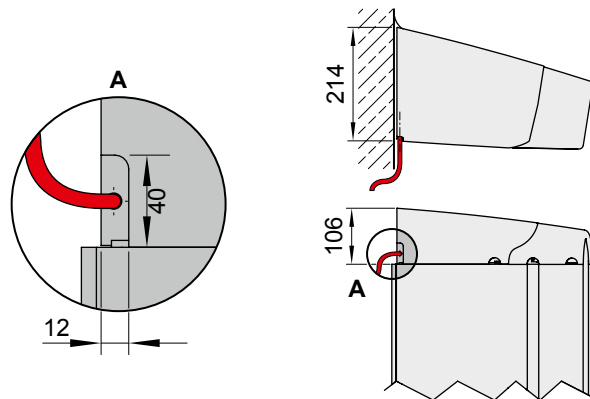
Cable exit top, optional
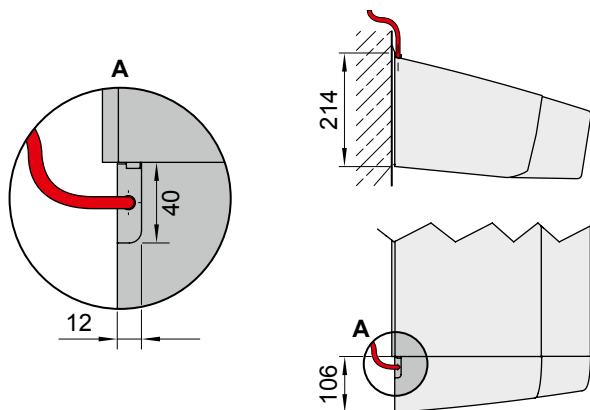
dimensions in mm

Electrical connection

The awning is connected with **a cable** (also with optional equipment with illumination and shadeplus) via plug coupling.

H05SS

Plug coupling

3 × 1.0 mm²
1 = Neutral N (blue)
2 = Live L (brown)
3 = Free
PE = Earthing equipment
(green / yellow)
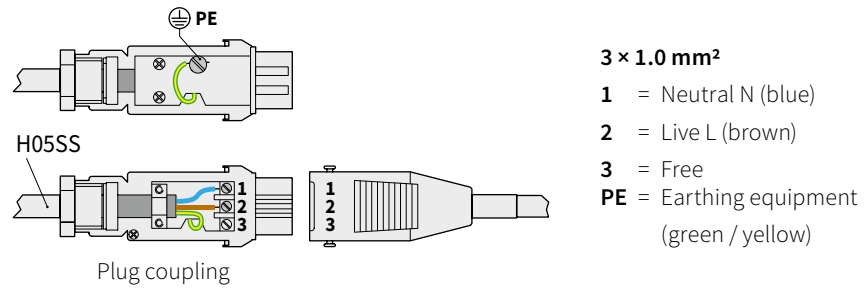
Definition of unit height

The nominal projection is measured with the awning extended at a pitch of approx. 15° from the back of the fixture brackets over the cover to the leading edge of the front profile. For the tolerances in the extension is + 40 / − 40 mm.

H

15°
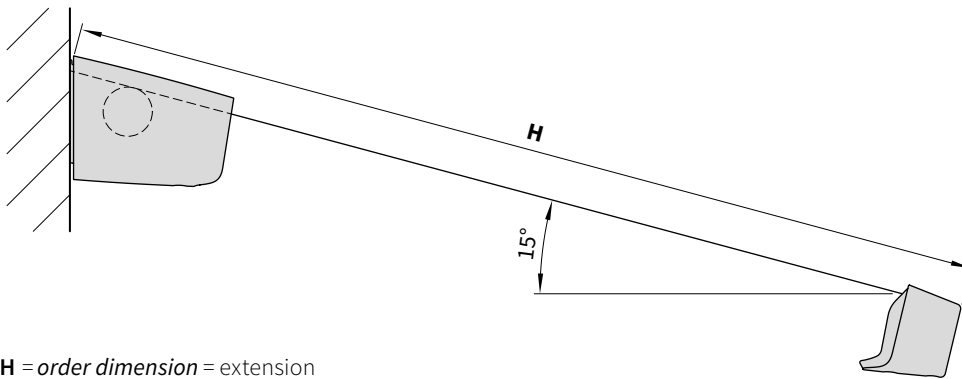
H = *order dimension* = extension

dimensions in mm

Bracket fixture range

Awning with 2 folding arms
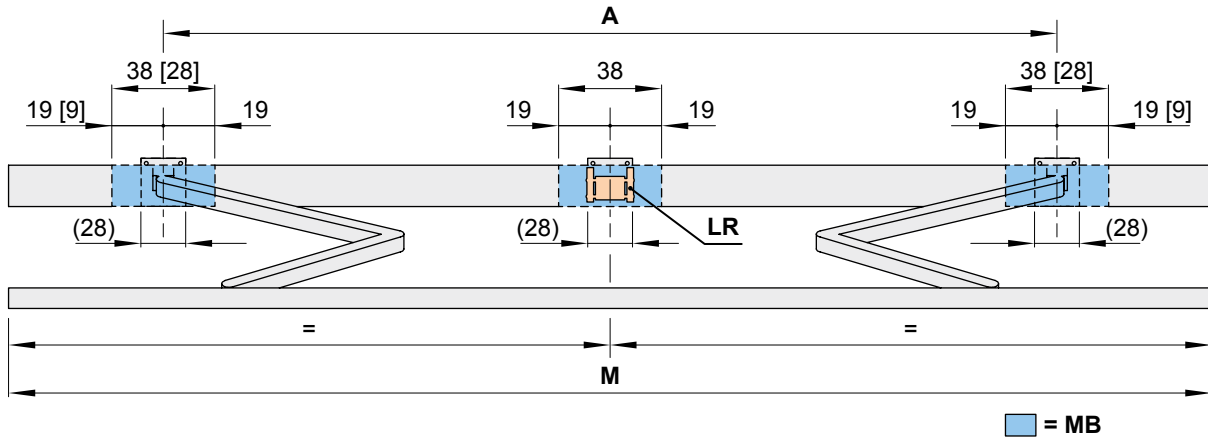
dimensions in cm

Overall awning width								
250	**300**	**350**	**400**	**450**	**500**	**550**	**600**	**650**

Order dimensions	201 — 250	251 — 300	301 — 350	351 — 400	401 — 450	451 — 500	501 — 550	551 — 600	601 — 650

		Arm position A								
H	**165**	169 [1]	204	254	300	340	380	440	490	510
	215	—	219 [1]	254	300	340	380	440	490	510
	265	—	—	269 [1]	300	340	380	440	490	510
	315	—	—	—	319 [1]	340	380	440	490	510
	365	—	—	—	—	382 [1]	390	440	490	—
	415	—	—	—	—	—	432 [1]	440	—	—

BHT	No. of brackets	No. of fixing points		
W **28**	2	8	3	12
BP	**A** 2	16 **B** 2	8	**A** 2	16 und 1 × 72611.	4 **B** 3	12

dimensions in cm

1) Dimension A is only valid for standard arms! Dimension A is 13 cm smaller in the case of bespoke arms. Please note the minimum width! If the brackets cannot be positioned in accordance with this table, make sure the actual measurements are noted on the order form!

[…]   = dimensions only apply with minimum widths

(…)   = width of standard fixture brackets

A   = arm position

BHT   = bracket width

BP   = spreader plate A or B, to be positioned behind the folding arm

H   = *order dimension* = extension

LR   = a rolltex bearing with accompanying bracket is always placed under a central seam (depends on the awning size)
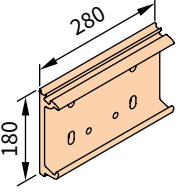
M   = *order dimension* = awning width

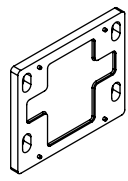**MB**   = bracket fixture range

W   = face fixture

Bracket fixture range

Awning with 3 folding arms

☐ = MB
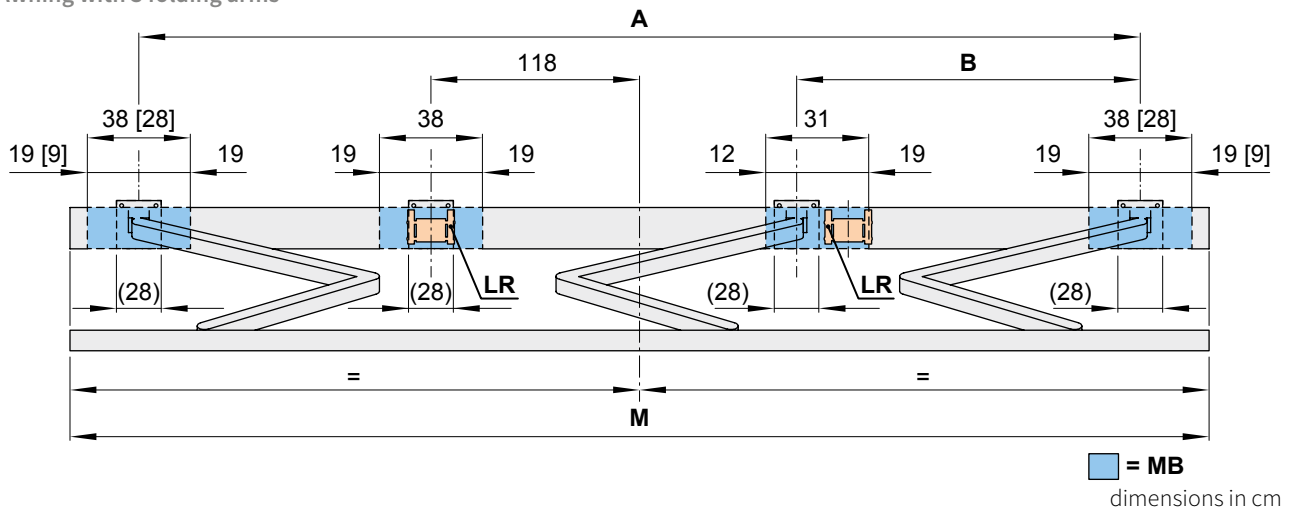
dimensions in cm

	Overall awning width				
	650	**700**			
Order dimensions	$\frac{648}{650}$	$\frac{651}{674}$	$\frac{675}{700}$	$\frac{651}{660}$	$\frac{661}{700}$

		Arm position									
		A	B	A	B	A	B	A	B	A	B
H	**165**	—	—	570	184	590	194	—	—	—	—
	215	—	—	570	184	590	194	—	—	—	—
	265	—	—	570	184	590	194	—	—	—	—
	315	—	—	570	184	590	194	—	—	—	—
	365	603 [1]	200 [1]	—	—	—	—	606 [1]	202 [1]	616	207
	415	—	—	—	—	—	—	—	—	653 [1]	226 [1]

	BHT	No. of brackets	No. of fixing points		
W	**28**	4 │ 16	
BP		**A** 3 │ 24 und 1 × 72611. │ 4	**B** 4 │ 16

dimensions in cm

1) Please note the minimum widths! If the brackets cannot be positioned in accordance with this table, make sure the actual measurements are noted on the order form!

[...]   = dimensions only apply with minimum widths

(...)   = width of standard fixture brackets

A   = arm position

B   = arm position

BHT   = bracket width

BP   = spreader plate A or B, to be positioned behind the folding arm

H   = *order dimension* = extension

LR   = a rolltex bearing with accompanying bracket is always placed under a central seam (depends on the awning size)

M   = *order dimension* = awning width

MB   = bracket fixture range

W   = face fixture

01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
17

Face fixture

Fixtures, fittings and accessories

face fixture bracket

280 mm
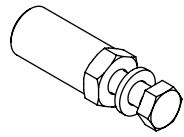
72611.
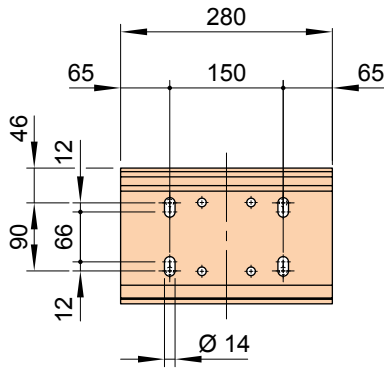
spacer plate for
face fixture

180 × 150 × 12 mm

N.B!
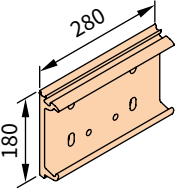stack to a max. height of
200 mm

74989.

bolt reduction assembly

pack 10 pcs
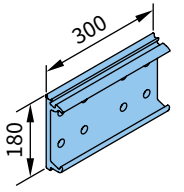
| M 16 → M 12 | M 16 → M 10 | M 12 → M 10 | M 10 → M 10 |
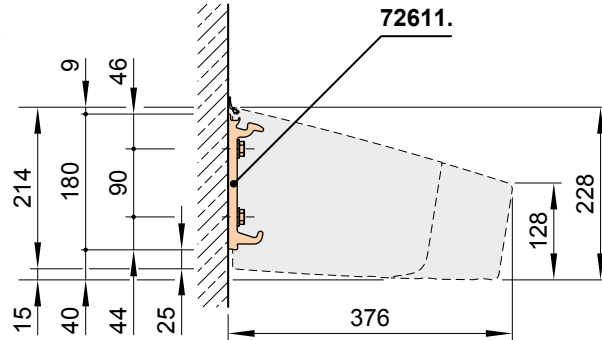
72611.

Face fixture with wall bracket A

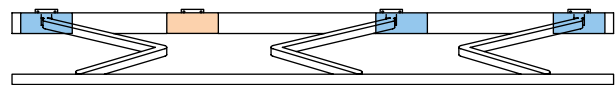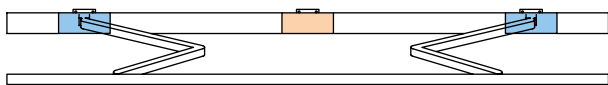**Fixtures, fittings and accessories**

face fixture bracket

280 mm

72611.

face fixture A

8-hole

300 mm

72714.

Position of face fixture brackets in the case of 2 folding arms

72611.   **72714.**

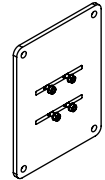**Position of face fixture brackets in the case of 3 folding arms**
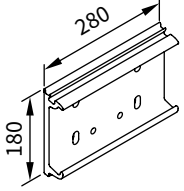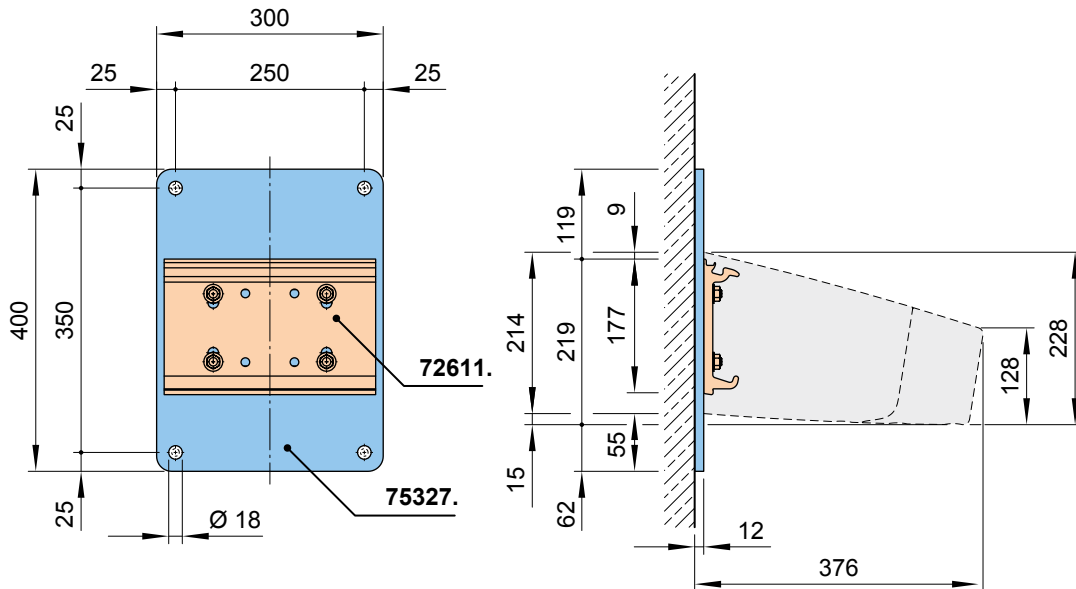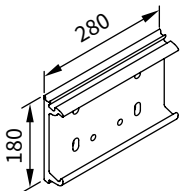
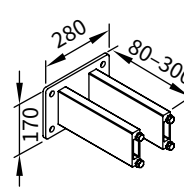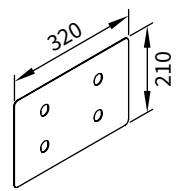**72611. / 72714.**
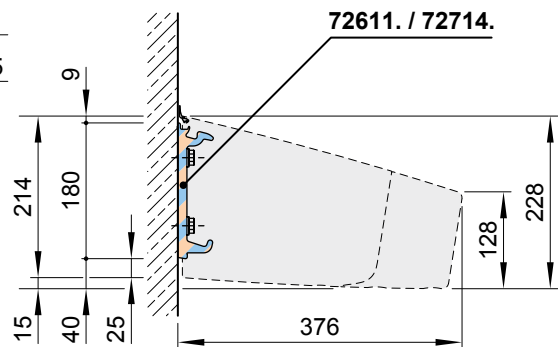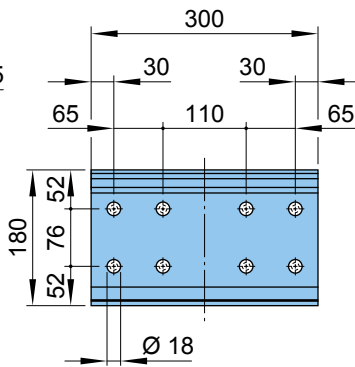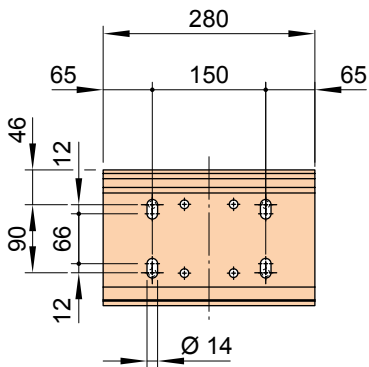
dimensions in mm

# Face fixture with spreader plate B

Fixtures, fittings and accessories

280 / 180	face fixture bracket
	280 mm
72611.	

	spreader plate B
	300 × 400 × 12 mm
	4-hole
75327.	

300
25 250 25
25
400 350
25
Ø 18

72611.
75327.

119 9
214 219 177
15 55
62
12
376
228 128

Face fixture with stand-off bracket

Fixtures, fittings and accessories

280 / 180	face fixture bracket
	280 mm
72611.	

280 / 80–300 / 170	stand-off bracket
	80–300 mm
77970.	

320 / 210	cover plate for spacer plate and stand-off brackets in case of external insulation
	320 × 210 × 2 mm
71842.	

A
280
230
170 120
(65) Ø 18
A

10
A–A
77970.
80 — 300
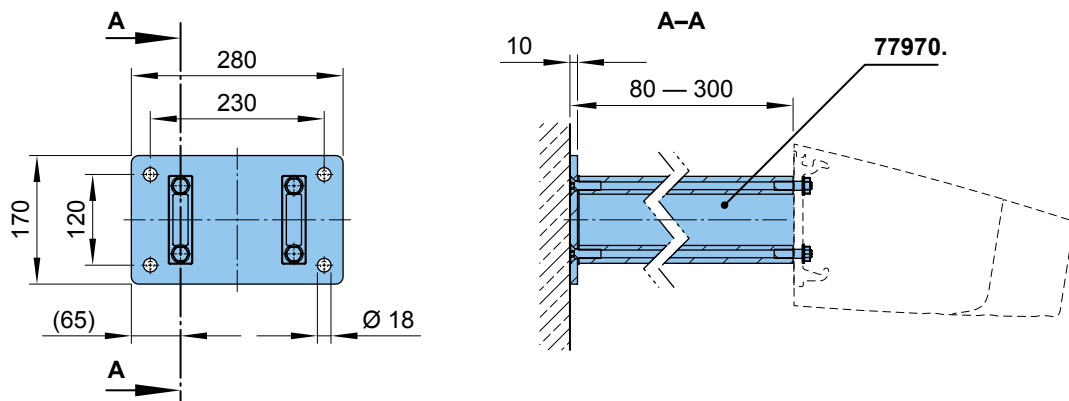
dimensions in mm

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17