

TUDO HE

**The new generation of LED strips.
Powerful and highly efficient.**



Overview of the Tудо HE strips

Model	Tудо HE 2.8 24 V	Tудо HE 4.3 24 V	Tудо HE 6.3 24 V	Tудо HE 8.6 24 V	Tудо HE 11.5 24 V	Tудо HE Emotion 4.0 24 V	Tудо HE Emotion 9.8 24 V	Tудо HE EDC 4.0 24 V	Tудо HE EDC 9.8 24 V
Application	Ambient	Universal		Bright		Ambient	Bright	Ambient	Bright
Illuminance at 50 cm	451-490 lx	705-702 lx	953-982 lx	1364-1373 lx	1588-1895 lx	641-684 lx	1422-1515 lx	631-654 lx	1414-1532 lx
Power /m	2.8 W	4.3 W	6.3 W	8.6 W	11.5 W	4.0 W	9.8 W	4.0 W	9.8 W
Luminous flux /m	489 lm	750 lm	1.100 lm	1.500 lm	2000 lm	658-672 lm	1650-1711 lm	748-797 lm	1670-1711 lm
Efficiency of light source	171.4 lm/W	174.4 lm/W	174.6 lm/W	174.4 lm/W	173.9 lm/W	164.5-168 lm/W	167.1- 169.9 lm/W	155.8- 166.0 lm/W	167.1- 169.9 lm/W
CCT	 2700 K / 3000 K / 4000 K					 2700-6500 K		 2700 K - 4000 K	
Energy efficiency class	 * 2700 K								
CRI	> 80								
Length	300 mm / 5.000 mm / 50.000 mm		321 mm / 5.000 mm / 50.000 mm	300 mm / 5.000 mm / 50.000 mm		321 mm / 5.000 mm / 50.000 mm			
Max. opt. length*	17.000 mm	11.000 mm	7.500 mm	5.500 mm	4.000 mm	12.000 mm	5.000 mm	12.000 mm	5.000 mm
LEDs /m	80		112	160	200	112+112			
Separation	50 mm		35.7 mm	25 mm	20 mm	35.7			
Cooling necessary	No	No	No	Yes	Yes	No	Yes	No	Yes
Width / Height	8 / 1.5								
IP protec- tion class	IP 20								
Can replace following LED strips	Tудо 4.8 / 12 V	Tудо 7.2 / 12 V Tудо 7.2 / 24 V	Tудо 9.6 / 12 V Tудо 9.6 / 24 V	Tудо 14.4 / 24 V	-	Tудо Emotion 7.2 / 12 V Tудо Emotion 7.8 / 12 V Tудо Emotion 7.8 / 24 V	Tудо Emotion 15.5 / 12 V Tудо Emotion 15.5 / 24 V Tудо Emotion 24 / 24 V	-	-

* Luminous flux drop ≤ 20%, therefore not perceptible to the human eye

Old vs. New Comparison

The new Tudo HE tapes are more efficient and emit more light with significantly lower energy consumption. That is why we now offer the new generation Tudo HE. The 24 V tapes replace both the old 12 V variants and the 24 V tapes. More light - less energy.

Comparison Chart Tudo Strips

Old LED strip	LEDs / m	Lumen	Cut points	New LED strip	LEDs / m	Lumen	Cut points
Tudo 4.8 / 12 V	60	430	3/50 mm	Tudo HE 2.8 / 24 V	80	480	4/50 mm
Tudo 7.2 / 12 V	90	650	3/33 mm	Tudo HE 4.3 / 24 V	80	750	
Tudo 9.6 / 12 V	120	840	3/25 mm	Tudo HE 6.3 / 24 V	112	1100	4/35.7 mm
Tudo Emotion 7.2 / 12 V	120+120	650	3+3/25 mm	Tudo Emotion HE 4.0 / 24 V	112+112	700	4+4/ 35.7 mm
Tudo Emotion 7.8 / 12 V	60+60	650	3+3/50 mm				
Tudo Emotion 15.5 / 12 V	120+120	1400	3+3/25 mm	Tudo Emotion HE 9.8 / 24 V	112+112	1700	
Tudo 7.2 / 24 V	120	650	6/50 mm	Tudo HE 4.3 / 24 V	80	750	4/50 mm
Tudo 7.2 / 24 V	240	650	6/25 mm				4/35.7 mm
Tudo 9.6 / 24 V	120	840	6/50 mm	Tudo HE 6.3 / 24 V	112	1100	
Tudo 14.4 / 24 V	120	1200	6/50 mm	Tudo HE 8.6 / 24 V	160	1500	4/25 mm
Tudo Emotion 7.8 / 24 V	60+60	650	6+6/100 mm	Tudo Emotion HE 4.0 / 24 V	112+112	700	4+4/ 35.7 mm
Tudo Emotion 15.5 / 24 V	120+120	1400	6+6/50 mm	Tudo Emotion HE 9.8 / 24 V	112+112	1700	
Tudo Emotion 24 / 24 V	120+120	1700					



LED strip Tudo HE 2.8 24 V

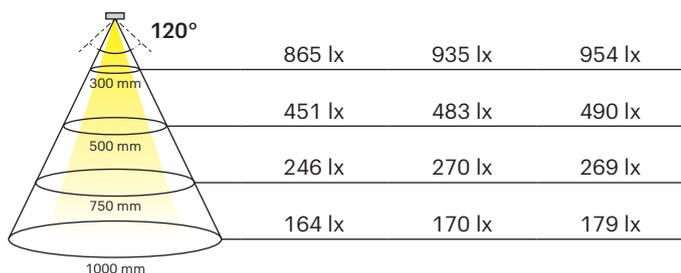
- High efficiency LED strip
- Suitable for decorative light applications
- Compatible with the Tudo modular system



Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	2.8 W/m
Color temperature:	Extra warm white (EEC D) Warm White (EEC C) Natural white (EEC C)
Color rendering index (CRI):	> 80
Luminous flux:	480 lm/m
Luminous efficacy:	171.43 lm/W
LED lifespan:	30.000 h
Number of LEDs:	80/m
Separation:	4/50 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE 2.8 24 V

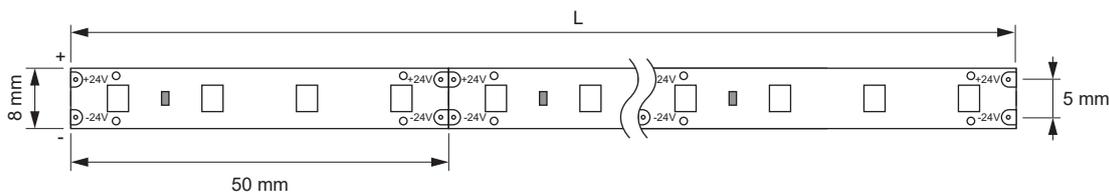
CRI > 80 L= 1000 mm 2700 K 3000 K 4000 K



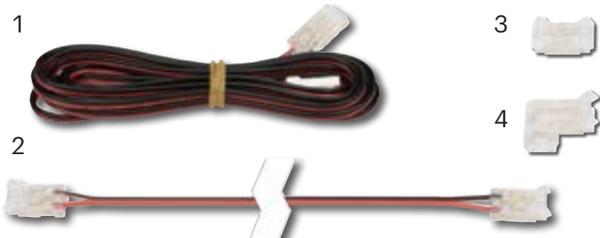
! Maximum allowed strip length: 25700 mm, optical max. 17000 mm, 50 m reel without connection cables

LED strip Tudo HE 2.8 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE 2.8	5000	2.8	2700	2001001

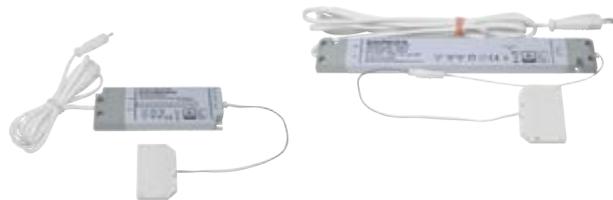
Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“

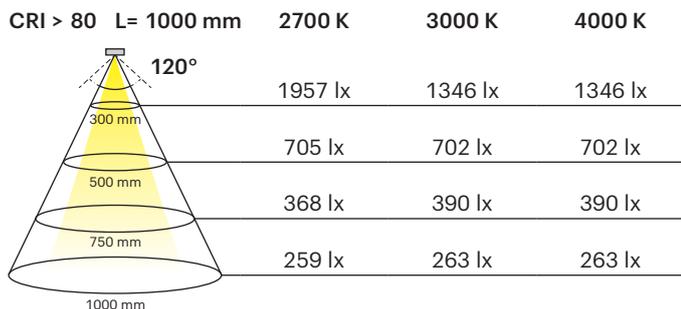


LED strip Tudo HE 4.3 24 V

- High efficiency LED strip
- Suitable for universal light applications
- Compatible with the Tudo modular system



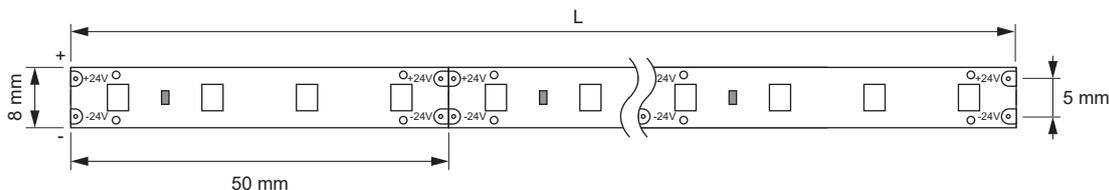
Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	4.3 W/m
Color temperature:	Extra warm white (EEC D) Warm White (EEC D) Natural white (EEC C)
Color rendering index (CRI):	> 80
Luminous flux:	750 lm/m
Luminous efficacy:	174.42 lm/W
LED lifespan:	30.000 h
Number of LEDs:	80/m
Separation:	4/50 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm



! Maximum allowed strip length: 16950 mm, optical max. 11000 mm, 50 m reel without connection cables

LED strip Tudo HE 4.3 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE 4.3	5000	4.3	2700	2001006
			3000	2001007
			4000	2001008
Tudo HE 4.3 Eco	5000	4.3	2700	2001036
			3000	2001037
			4000	2001038

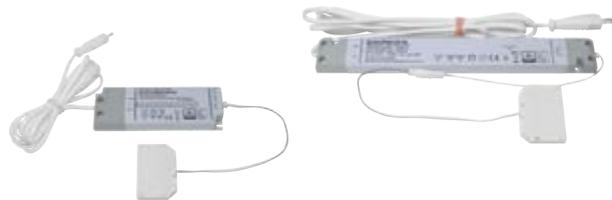
Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“



LED strip Tudo HE 6.3 24 V

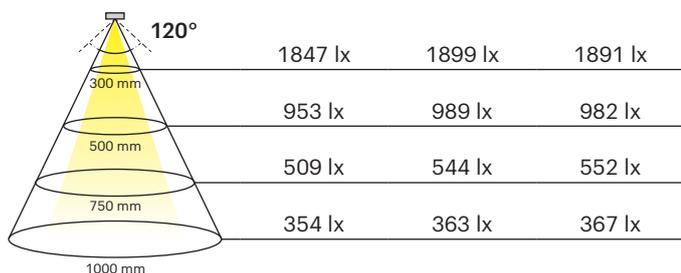
- High efficiency LED strip
- Suitable for direct, even light applications
- Compatible with the Tudo modular system



Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	6.3 W/m
Color temperature:	Extra warm white (EEC D) Warm White (EEC D) Natural white (EEC C)
Color rendering index (CRI):	> 80
Luminous flux:	1100 lm/m
Luminous efficacy:	174.60 lm/W
LED lifespan:	30.000 h
Number of LEDs:	112/m
Separation:	4/35.7 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE 6.3 24 V

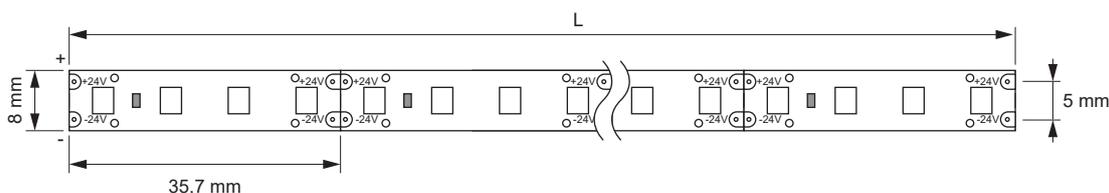
CRI > 80 L= 1000 mm 2700 K 3000 K 4000 K



! Maximum allowed strip length: 11400 mm optical max. 7500 mm, 50 m reel without connection cables

LED strip Tudo HE 6.3 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE 6.3	5000	6.3	2700	2001011
			3000	2001012
			4000	2001013
Tudo HE 6.3 Eco	5000	6.3	2700	2001041
			3000	2001042
			4000	2001043

Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“



LED strip Tudo HE 8.6 24 V

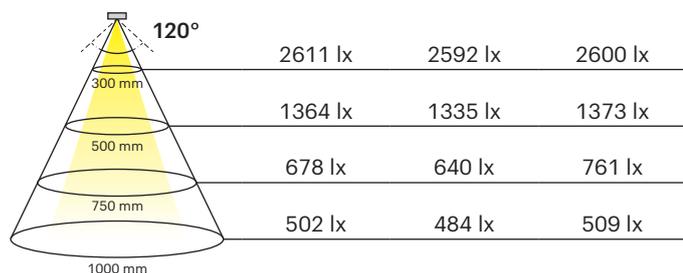
- High efficiency LED strip
- Suitable for direct, even and high illuminance light applications
- Compatible with the Tudo modular system



Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	8.6 W/m
Color temperature:	Extra warm white (EEC D) Warm White (EEC D) Natural white (EEC C)
Color rendering index (CRI):	> 80
Luminous flux:	1500 lm/m
Luminous efficacy:	174.42 lm/W
LED lifespan:	30.000 h
Number of LEDs:	160/m
Separation:	4/25 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE 8.6 24 V XWW

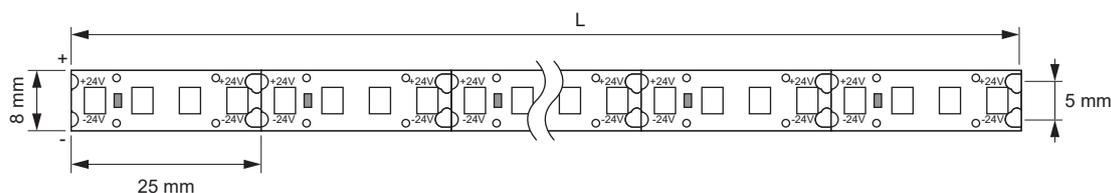
CRI > 80 L= 1000 mm 2700 K 3000 K 4000 K



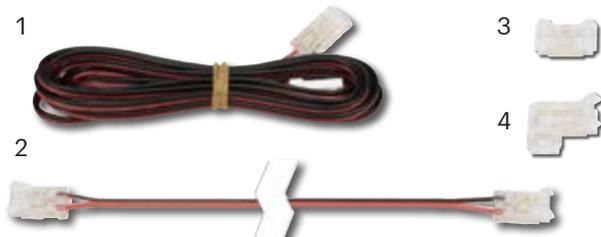
! Maximum allowed strip length: 8350 mm, optical max. 5500 mm, 50 m reel without connection cables

LED strip Tudo HE 8.6 24 V Eco	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE 8.6	5000	8.6	2700	2001016
			3000	2001017
			4000	2001018
Tudo HE 8.6 Eco	5000	8.6	2700	2001046
			3000	2001047
			4000	2001048

Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
	50	2000979
	400	2000980
	700	2000981
2 Connection cable		2000977
3 Connector (PU 10 pcs.)		2000978
4 Corner connector (PU 10 pcs.)		

LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“



LED strip Tudo HE 11.5 24 V

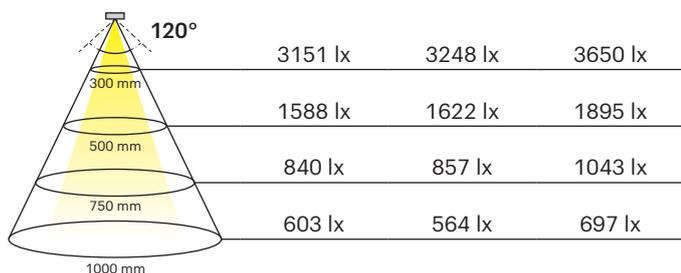
- High efficiency LED strip
- Suitable for high illuminance light applications
- Compatible with the Tudo modular system



Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	11.5 W/m
Color temperature:	Extra warm white (EEC D) Warm White (EEC D) Natural white (EEC C)
Color rendering index (CRI):	> 80
Luminous flux:	2.000 lm/m
Luminous efficacy:	173.9 lm/W
LED lifespan:	30.000 h
Number of LEDs:	200/m
Separation:	4/20 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE11.5 24 V

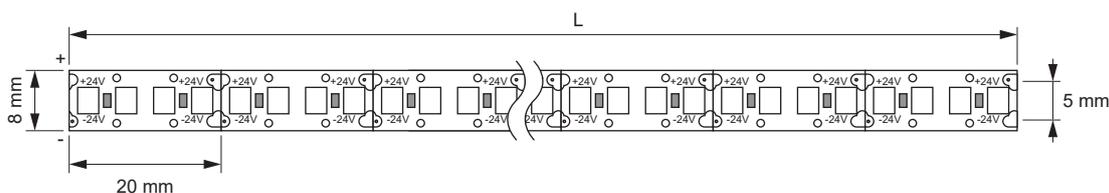
CRI > 80 L= 1000 mm 2700 K 3000 K 4000 K



! Maximum allowed strip length: 6250 mm, optical max. 4000 mm, 50 m reel without connection cables

LED strip Tudo HE 11.5 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE 11.5	5000	11.5	2700	2001021
			3000	2001022
			4000	2001023
Tudo HE 11.5 Eco	5000	11.5	2700	2001051
			3000	2001052
			4000	2001053

Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

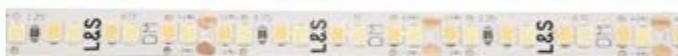
LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“



LED strip Tudo HE Emotion 4.0 24 V

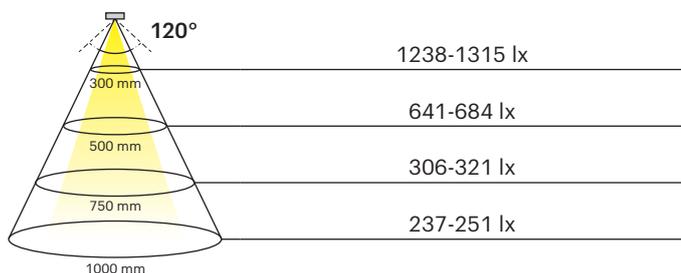
- High efficiency LED strip
- Suitable for universal light applications
- Compatible with the Tudo modular system



Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	4.0 W
Color temperature:	Emotion
Color rendering index (CRI):	> 80
Luminous flux:	658 (CW)-672(WW) lm/m
Luminous efficacy:	164.5-168 lm/W
LED lifespan:	30.000 h
Number of LEDs:	112+112/m
Separation:	4+4/35.7 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE Emotion 4.0 24 V

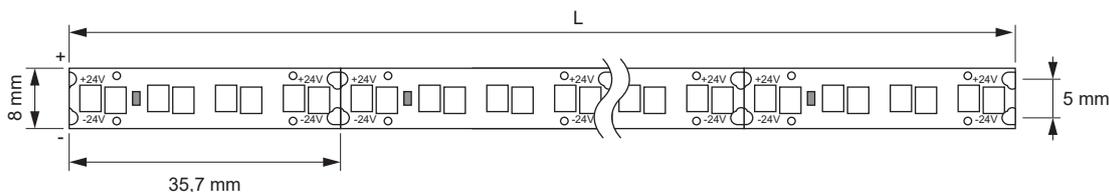
CRI > 80 L= 1000 mm 2700-6500 K



! Maximum allowed strip length: 18000 mm, optical max. 12000 mm, 50 m reel without connection cables

LED Strip Tudo HE Emotion 4.0 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE Emotion 4.0	5000	4.0	2700-6500	2001026
Tudo HE Emotion 4.0 Eco	50000			2001056

Dimensions



Connectors COB/SMD 8 mm, 24 V



Emotion control systems



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

see page 174 chapter „Controls“



LED strip Tудо HE Emotion 9.8 24 V

- High efficiency LED strip
- Suitable for direct, even and high illuminance light applications
- Compatible with the Tудо modular system

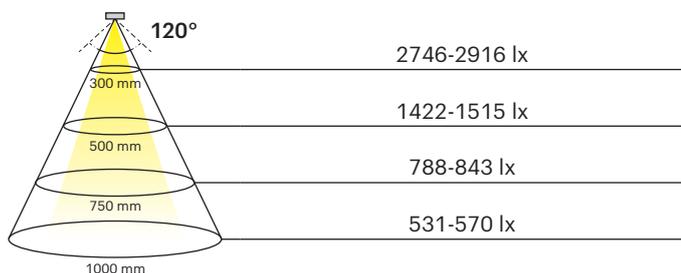


Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	9.8 W/m
Color temperature:	Emotion
Color rendering index (CRI):	> 80
Luminous flux:	1650 (CW)/1711 (WW) lm/m
Luminous efficacy:	167.14-169.91 lm/W
LED lifespan:	30.000 h
Number of LEDs:	112+112
Separation:	4+4/35.7 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tудо HE Emotion 9.8 24 V

CRI > 80 L= 1000 mm

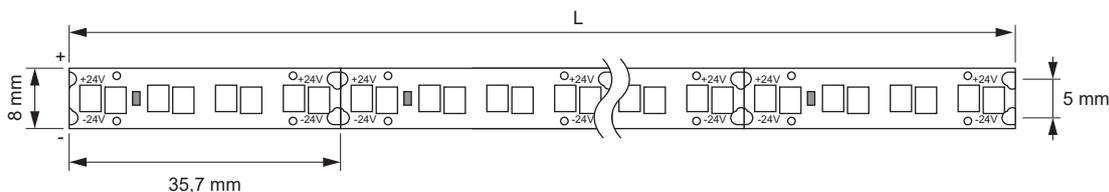
2700-6500 K



! Maximum allowed strip length: 7300 mm, optical max. 5000 mm, 50 m reel without connection cables

LED strip Tудо HE Emotion 9.8 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tудо HE Emotion 9.8	5000	9.8	2700-6500	2001027
Tудо HE Emotion 9.8 Eco	50000			2001058

Dimensions



Connectors COB/SMD 8 mm, 24 V



Emotion control systems



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

see page 174 chapter „Controls“



LED strip Tudo HE EDC 4.0 24 V

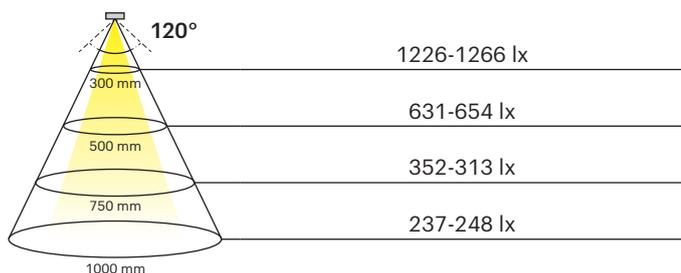
- High efficiency LED strip
- Suitable for universal light applications
- Compatible with the Tudo modular system



Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	4.0 W/m
Color temperature:	Emotion Dual Color
Color rendering index (CRI):	> 80
Luminous flux:	797 (WW) / 748 (NW) lm/m
Luminous efficacy:	155.83-166.04 lm/W
LED lifespan:	30.000 h
Number of LEDs:	112+112/m
Separation:	4+4/35.7 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE EDC 4.0 24 V

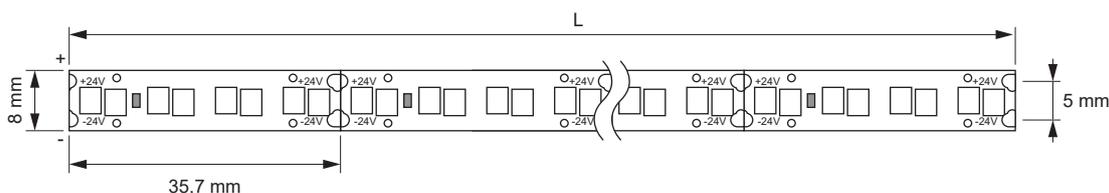
CRI > 80 L= 1000 mm 2700-4000 K



! Maximum allowed strip length: 18000 mm, optical max. 12000 mm, 50 m reel without connection cables

LED strip Tudo HE EDC 4.0 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE EDC 4.0	5000	4.0	2700-4000	2001028
Tudo HE EDC 4.0 Eco	50000			2001057
Emotion adapter cable				2000437

Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

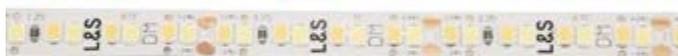
LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“



LED strip Tudo HE EDC 9.8 24 V

- High efficiency LED strip
- Suitable for direct, even and high illuminance light applications
- Compatible with the Tudo modular system

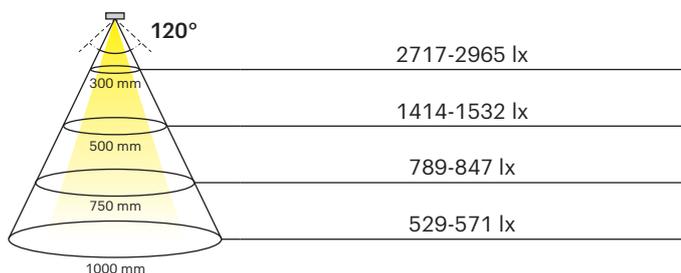


Operating voltage:	DC 24 V
Dimensions:	8x1.5 mm
Power:	9,8 W/m
Color temperature:	Emotion Dual Color
Color rendering index (CRI):	> 80
Luminous flux:	1670 (CW) -1711 (WW) lm/m
Luminous efficacy:	167.14-169.93 lm/W
LED lifespan:	30.000 h
Number of LEDs:	112+112/m
Separation:	4+4/35.7 mm
Beam angle:	120°
IP protection rating:	IP20
Color:	White
Cable length:	2x2.000 mm

LED strip Tudo HE EDC 9.8 24 V

CRI > 80 L= 1000 mm

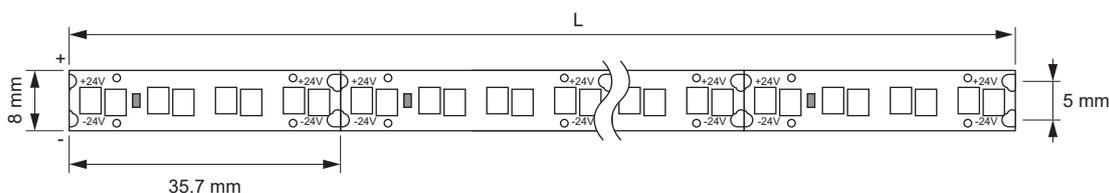
2700-4000 K



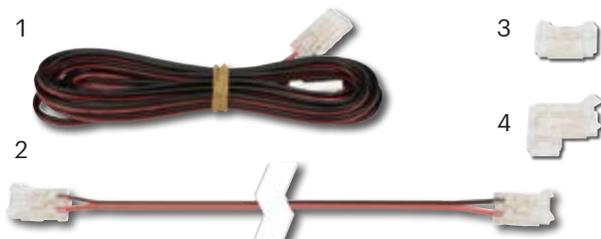
! Maximum allowed strip length: 7300 mm, optical max. 5000 mm, 50 m reel without connection cables

LED strip Tudo HE EDC 9.8 24 V	Length (mm)	Power (W/m)	Color temperature (K)	Ref.
Tudo HE EDC 9.8	5000	9.8	2700/4000	2001029
Tudo HE EDC 9.8 Eco	5000			2001059
Emotion adapter cable				2000437

Dimensions



Connectors COB/SMD 8 mm, 24 V



LED converters 24 V



Connector COB/SMD	Length	Ref.
1 Plug cable 24 V	1800	2000983
2 Connection cable	50	2000979
	400	2000980
	700	2000981
3 Connector (PU 10 pcs.)		2000977
4 Corner connector (PU 10 pcs.)		2000978

LED converter 24 V	Ref.
15 W	2000423
30 W	2000424
60 W	2000425

For additional switches and controllers, see page 174 chapter „Controls“

Samples



- All new 24 V Tudo HE strips
- Samples with 30 resp. 32.1 cm length
- Including connection cable

LED strip Tudo HE sample	Length (mm)	Power (W/m)	Color temperature	Ref.
Tudo HE 2.8	300	2.8	Extra warm white	2001200
			Warm white	2001201
			Natural white	2001202
Tudo HE 4.3		4.3	Extra warm white	2001203
			Warm white	2001204
			Natural white	2001205
Tudo HE 6.3	321	6.3	Extra warm white	2001206
			Warm white	2001207
			Natural white	2001208
Tudo HE 8.6	300	8.6	Extra warm white	2001209
			Warm white	2001210
			Natural white	2001211
Tudo HE 11.5		11.5	Extra warm white	2001212
			Warm white	2001213
			Natural white	2001214
Tudo HE Emotion	321	4.0	Emotion	2001215
		9.8		2001216
Tudo HE EDC		4.0	Emotion Dual Color	2001217
		9.8		2001218