



Description

The LT controllers provide manual control of the rotational speed of voltage-controllable (230 VAC / 50 Hz) motors by varying the supplied voltage through phase angle control. They are suitable for both inset and surface mounting. The enclosures are splashproof and suitable for both inset (IP44) and surface (IP54) mounting. An orange LED indicates the operation status. Multiple motors can be connected, as long as the maximum current is not exceeded. All models feature an additional (unregulated) 230 VAC output. These fan speed controllers offer an excellent and accurate regulation.

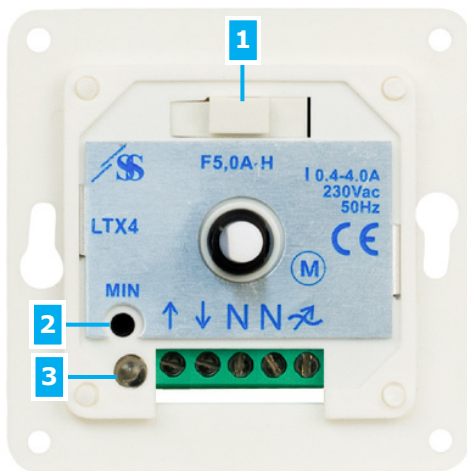
Key Features

- Continuously variable fan speed control
- Regulation from minimum to maximum speed (LTYN) and from maximum to minimum speed (LTXN)
- Minimum speed adjustable by internal trimmer
- Fuse 5*20 mm, spare fuse included
- Operating LED indication

Area of Use

- Manual control of motor/fan speed in HVAC applications
- For indoor use only

Wiring and Connections



↑	Power supply (230 VAC ±10 % / 50 Hz)
↓	Unregulated output voltage 230 VAC / max. 2 A
N	Neutral
⚡	Regulated output to motor
Connections	Cable cross section: max. 2,5 mm ²

Note: To disable the OFF position, connect the 230 VAC supply voltage to the unregulated output (↓). In this case, do not connect the power supply to: ↑.

Settings

1. Fuse holder	with a spare fuse	
2. Minimum speed adjustment trimmer		Adjusts the min. speed (factory preset 100 VAC)
3. Operating LED indication	Continuous orange	



Article Codes

Article code	Rated current range [A]	Fuse (5*20 mm) [A]
Low to high speed		
LTYN0-05-AT	0,05—0,5	F-0,63 A-H
LTYN0-15-AT	0,1—1,5	F-2 A-H
LTYN0-25-AT	0,2—2,5	F-3,15 A-H
LTYN0-40-AT	0,4—4	F-5 A-H
High to low speed		
LTXN0-05-AT	0,05—0,5	F-0,63 A-H
LTXN0-15-AT	0,1—1,5	F-2 A-H
LTXN0-25-AT	0,2—2,5	F-3,15 A-H
LTXN0-40-AT	0,4—4	F-5 A-H

Technical Specifications

Power supply	230 VAC ±10 % / 50 Hz
Regulated output	80—230 VAC
Unregulated output	230 VAC / max. 2 A
Minimum speed adjustment	80—180 VAC
Ambient conditions	
Temperature	0—35 °C
Relative humidity	< 100 % rH (non-condensing)
Protection standard	
Inset mounting	IP44 (according to EN 60529)
Surface mounting	IP54 (according to EN 60529)

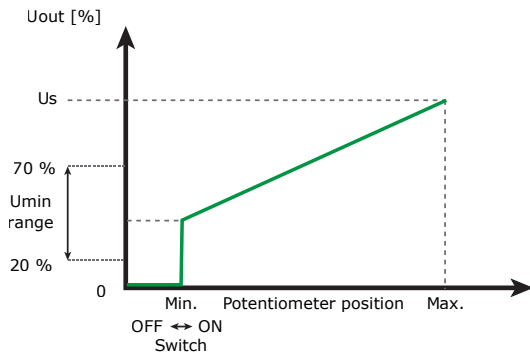
Standards

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- WEEE Directive 2012/19/EU
- Commission Delegated Directive (EU) 2015/863 (RoHS 3) of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances

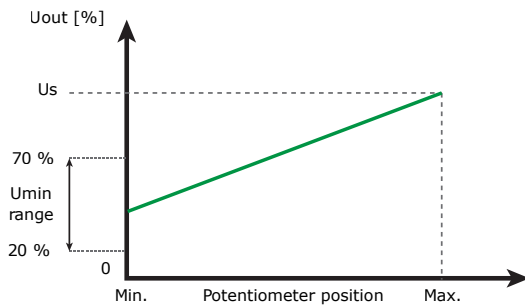


Operational diagram LTY (min. to max.)

OFF position enabled: supply voltage connected to ↑ and N

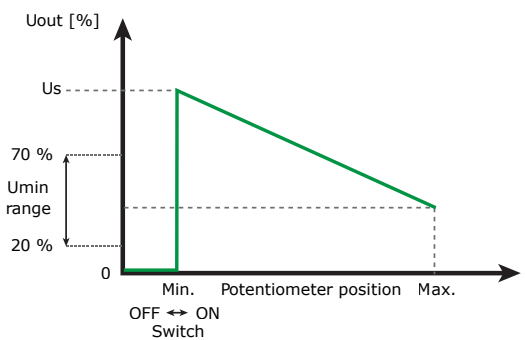


OFF position disabled: supply voltage connected to ↓ and N

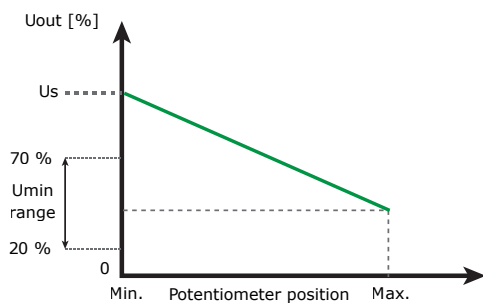


Operational diagram LTX (max. to min.)

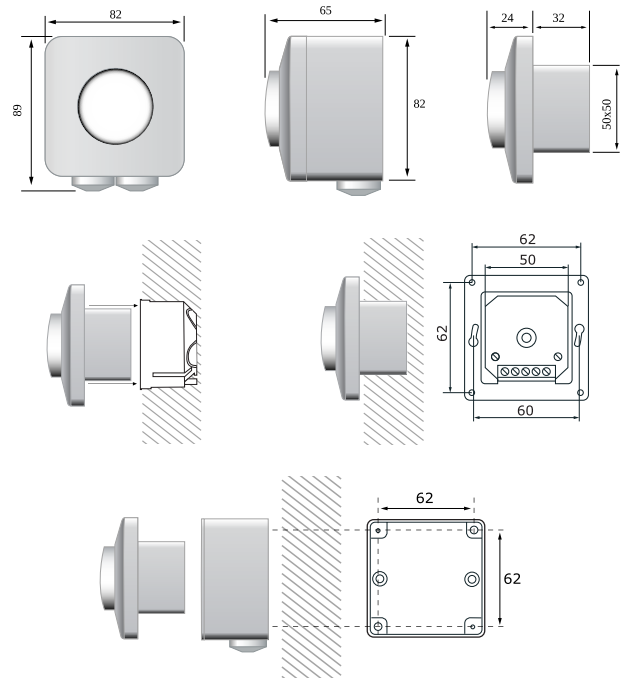
OFF position enabled: supply voltage connected to ↑ and N



OFF position disabled: supply voltage connected to ↓ and N

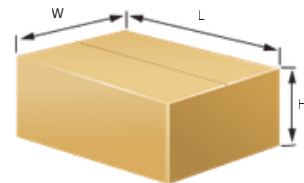


Fixing and Dimensions



Attention! **LTXN0-40-AT** and **LTYN0-40-AT** are suited for surface mounting only!

Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
LTYN0-05-AT LTYN0-15-AT LTYN0-25-AT LTXN0-05-AT LTXN0-15-AT LTXN0-25-AT	Unit (1 pc)	85,5	95,5	70,5	0,17	0,19
	Carton (10 pcs)	492	182	84	1,74	2,09
	Box (60 pcs)	590	380	280	10,44	13,53
	Half pallet (960 pcs)	1.200	800	1.290	167,04	234,28
	Pallet (1.680 pcs)	1.200	800	2.140	292,32	398,44
LTYN0-40-AT LTXN0-40-AT	Unit (1 pc)	85,5	95,5	70,5	0,24	0,26
	Carton (10 pcs)	492	182	84	2,35	2,70
	Box (60 pcs)	590	380	280	14,10	17,19
	Half pallet (960 pcs)	1.200	800	1.290	225,60	307,24
	Pallet (1.680 pcs)	1.200	800	2.140	394,80	500,92



Global Trade Item Numbers 14 (GTIN 14)

Article code	Unit	Carton	Box
LTYN0-05-AT	5401003008614	5401003301302	5401003501962
LTYN0-15-AT	5401003008621	5401003301319	5401003501979
LTYN0-25-AT	5401003008638	5401003301326	5401003501986
LTYN0-40-AT	5401003008645	5401003301333	5401003501993
LTXN0-05-AT	5401003008577	5401003301265	5401003501924
LTXN0-15-AT	5401003008584	5401003301272	5401003501931
LTXN0-25-AT	5401003008591	5401003301289	5401003501948
LTXN0-40-AT	5401003008607	5401003301296	5401003501955

