

TL47S

series



Product Segments

• Ergo Motion

TiMOTION's TL47S is an inline lifting column designed with a soft square profile that balances modern aesthetics with reliable performance. Its clean, refined appearance makes it an ideal choice for applications where style and functionality must work seamlessly together.

The TL47S eliminates the need for a protruding motor housing, maintaining a slim, elegant look without sacrificing stability or strength. Perfect for ergonomic monitor stands, cabinets, and design-oriented motion furniture, the TL47S offers both visual appeal and dependable movement.

Key Features

- Distinctive soft square profile for a sleek, modern appearance
- Slim form factor with not visible motor housing

Features

- Load and speed per column¹²

Column	Code	Load (N)	Self Locking Force (N)	Current (A) with 24V DC		Speed (mm/s) with 24V DC	
				No Load	With Load	No Load	With Load
TL47S-3S	C	700	700	≤ 2.2	≤ 5.5	42.0	30.0
TL47S-3R	C	700	700	≤ 2.2	≤ 5.5	42.0	30.0
TL47S-2S	C	700	700	≤ 2.0	≤ 5.0	42.0	32.0
TL47S-2R	C	700	700	≤ 2.0	≤ 5.0	42.0	32.0

- Outer profile Overall width/length 70mm, soft square
- Stages
 - TL47S-3:
3-stage
 - TL47S-2:
2-stage
- Output signals Hall sensor * 2
- Voltage 24V DC
- Color³

 RAL9005
  RAL9006
  RAL9016
  RAL9022
- Product weight
 - TL47S-3:
5.7kg /column
 - TL47S-2:
4.8kg /column

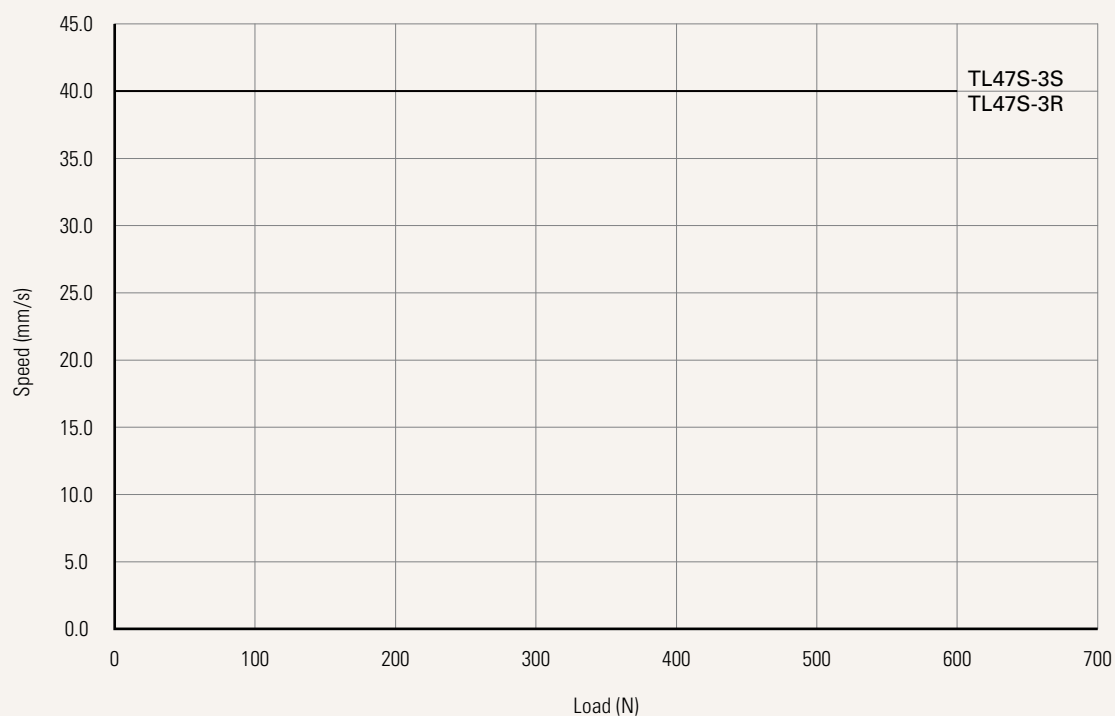
Note

- ¹ The self locking force, current, and speed performance are tested with TiMOTION control boxes.
- ² The parameters are based on average test values; final specifications are subject to the approval drawings.
- ³ For more color options, please consult your sales representative.

Performance Data with Control Box

The following is the performance data of one column driven by an Ergo Motion control box TC11P. The load is evenly distributed on the work surface.⁴

- TL47S-3, one column driven by TC11P



Column	TC11P Spec	Load (N)	Constant speed (mm/s) with TC11P
TL47S-3S	75W	700	40
TL47S-3R	75W	700	40

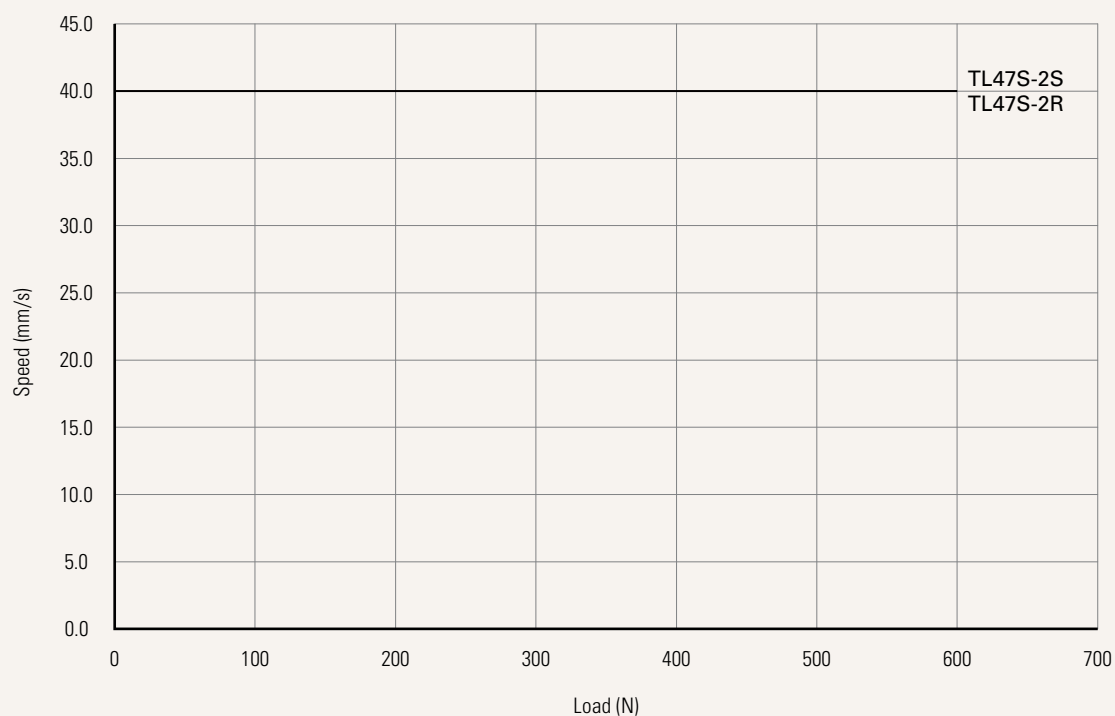
Note

- ⁴ The corresponding control box software is required.

Performance Data with Control Box

The following is the performance data of one column driven by an Ergo Motion control box TC11P. The load is evenly distributed on the work surface.⁴

- TL47S-2, one column driven by TC11P



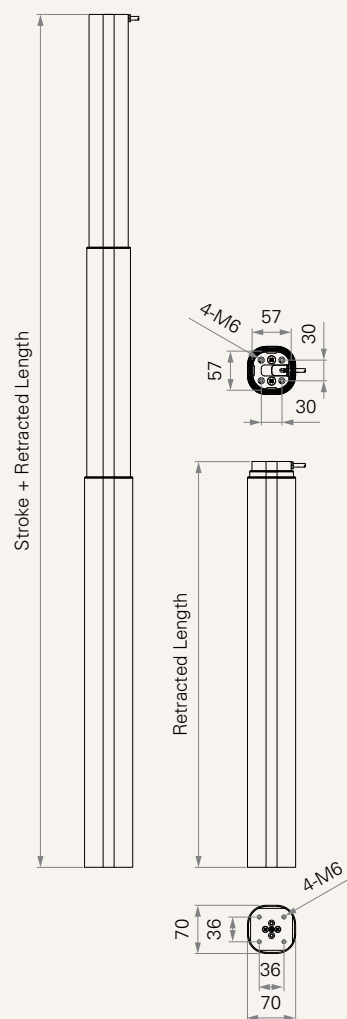
Column	TC11P Spec	Load (N)	Constant speed (mm/s) with TC11P
TL47S-2S	75W	700	40
TL47S-2R	75W	700	40

Note

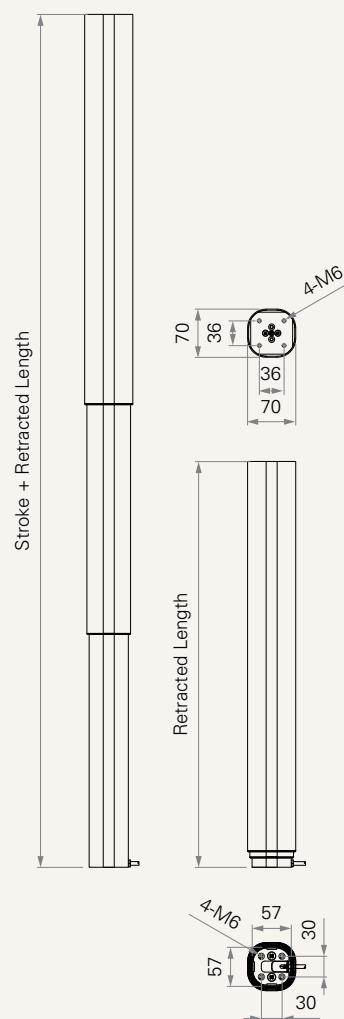
- ⁴ The corresponding control box software is required.

Drawing

Standard Dimensions
(mm)



[TL47S-3S](#)



[TL47S-3R](#)

TL47S-3S / TL47S-3R

Stroke & Retracted Length

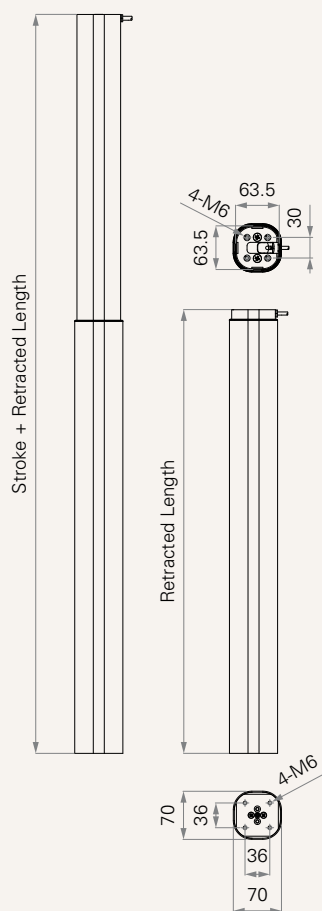
	Options	Stroke (mm)	Retracted Length (mm)
Standard Outer Tube	Standard	650	590
Extended Outer Tube	Standard	650	610

Note

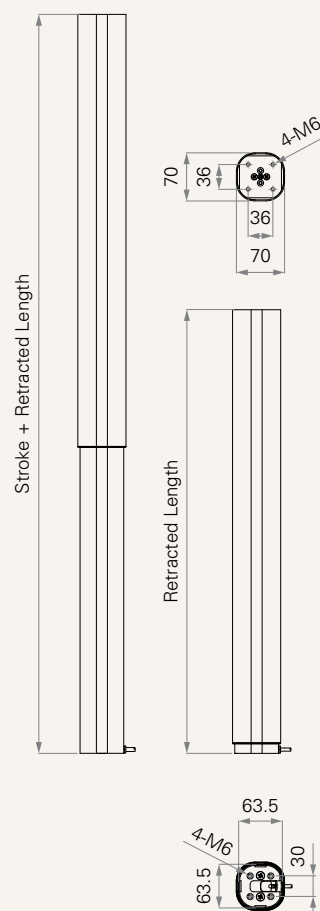
1 Only specific TEK could be with the shoes, please refer to TEK speccode.

Drawing

Standard Dimensions
(mm)



[TL47S-2S](#)



[TL47S-2R](#)

TL47S-2S / TL47S-2R

Stroke & Retracted Length

	Options	Stroke (mm)	Retracted Length (mm)
Standard Outer Tube	Standard	430	645
Extended Outer Tube	Standard	430	665

Note

1 Only specific TEK could be with the shoes, please refer to TEK speccode.

TL47S-3S Ordering Key

TL47S

Version: 20260706-E

Version: 20260706-E

	Column Stage	3 = 3-stage			
	Column Direction	S = Standard (narrow top, wide bottom)			
	Appearance of Tubes	C = Without wiper fixing holes at sides			
	Voltage	2 = 24V DC			
	Load and Speed	See page 2			
	Stroke & Retracted Length (mm)	650 590 = 650590			
		See page 5			
	Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
	Wiper Color	1 = Black	2 = White	3 = Grey	
	Bracket	0 = Without			
	Bottom Plate Type (mm)	2 = M6, 36*36, TiMOTION standard			
		See page 11			
	Top Plate Type (mm)	2 = M6, 30*30, TiMOTION standard			
		See page 11			
	Output Signals	2 = Hall sensor * 2			
	Connector	G = Molex 6P, plug, standard			
	Cable Length (mm)	1 = Straight, 200, standard			
	Extension Cable Connector	0 = Without 3 = Molex 6 pin (socket) to Molex 8 pin (plug), 90° plug, without anti-clip		4 = Molex 6 pin (socket) to Molex 8 pin (plug), 180° plug, standard 5 = Molex 6 pin (socket) to Molex 6 pin (plug), 180° plug, standard	
	Extension Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

Note

¹ The TL is designed especially for push applications, not suitable for pull applications.

TL47S-3R Ordering Key

TL47S

Version: 20260706-E

	Column Stage	3 = 3-stage			
	Column Direction	R = Reverse (wide top, narrow bottom)			
	Appearance of Tubes	C = Without wiper fixing holes at sides			
	Voltage	2 = 24V DC			
	Load and Speed	See page 2			
	Stroke & Retracted Length (mm)	650 590 = 650590			
	See page 5				
	Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
	Wiper Color	1 = Black	2 = White	3 = Grey	
	Bracket	0 = Without			
	Bottom Plate Type (mm)	2 = M6, 36*36, TiMOTION standard			
	See page 11				
	Top Plate Type (mm)	2 = M6, 30*30, TiMOTION standard			
	See page 11				
	Output Signals	2 = Hall sensor * 2			
	Connector	G = Molex 6P, plug, standard			
	Cable Length (mm)	1 = Straight, 200, standard			
	Extension Cable Connector	0 = Without 3 = Molex 6 pin (socket) to Molex 8 pin (plug), 90° plug, without anti-clip		4 = Molex 6 pin (socket) to Molex 8 pin (plug), 180° plug, standard 5 = Molex 6 pin (socket) to Molex 6 pin (plug), 180° plug, standard	
	Extension Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

Note

¹ The TL is designed especially for push applications, not suitable for pull applications.

TL47S-2S Ordering Key

TL47S

Version: 20260706-E

Version: 20260706-E

	Column Stage	2 = 2-stage			
	Column Direction	S = Standard (narrow top, wide bottom)			
	Appearance of Tubes	C = Without wiper fixing holes at sides			
	Voltage	2 = 24V DC			
	Load and Speed	See page 2			
	Stroke & Retracted Length (mm)	430 645 = 430645			
	See page 5				
	Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006	4 = Special grey, RAL 9022
	Wiper Color	1 = Black	2 = White	3 = Grey	
	Bracket	0 = Without			
	Bottom Plate Type (mm)	2 = M6, 36*36, TiMOTION standard			
	See page 11				
	Top Plate Type (mm)	2 = M6, 30*30, TiMOTION standard			
	See page 11				
	Output Signals	2 = Hall sensor * 2			
	Connector	G = Molex 6P, plug, standard			
	Cable Length (mm)	1 = Straight, 200, standard			
	Extension Cable Connector	0 = Without 3 = Molex 6 pin (socket) to Molex 8 pin (plug), 90° plug, without anti-clip		4 = Molex 6 pin (socket) to Molex 8 pin (plug), 180° plug, standard 5 = Molex 6 pin (socket) to Molex 6 pin (plug), 180° plug, standard	
	Extension Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	

Note

¹ The TL is designed especially for push applications, not suitable for pull applications.

TL47S-2R Ordering Key

TL47S

Version: 20260706-E

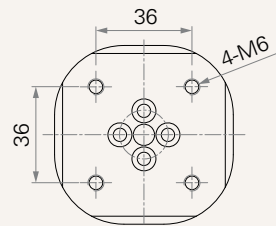
	Column Stage	2 = 2-stage		
	Column Direction	R = Reverse (wide top, narrow bottom)		
	Appearance of Tubes	C = Without wiper fixing holes at sides		
	Voltage	2 = 24V DC		
	Load and Speed	See page 2		
	Stroke & Retracted Length (mm)	430 645 = 430645		
		See page 5		
	Color	1 = Black, RAL 9005	2 = White, RAL 9016	3 = Grey, RAL 9006
	Wiper Color	1 = Black	2 = White	3 = Grey
	Bracket	0 = Without		
	Bottom Plate Type (mm)	2 = M6, 36*36, TiMOTION standard		
		See page 11		
	Top Plate Type (mm)	2 = M6, 30*30, TiMOTION standard		
		See page 11		
	Output Signals	2 = Hall sensor * 2		
	Connector	G = Molex 6P, plug, standard		
	Cable Length (mm)	1 = Straight, 200, standard		
	Extension Cable Connector	0 = Without 3 = Molex 6 pin (socket) to Molex 8 pin (plug), 90° plug, without anti-clip 4 = Molex 6 pin (socket) to Molex 8 pin (plug), 180° plug, standard 5 = Molex 6 pin (socket) to Molex 6 pin (plug), 180° plug, standard		
	Extension Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500

Note

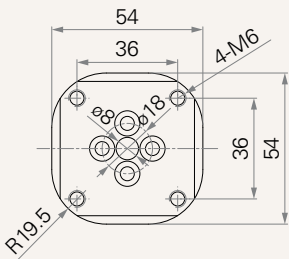
¹ The TL is designed especially for push applications, not suitable for pull applications.

Bottom Plate Type (mm)

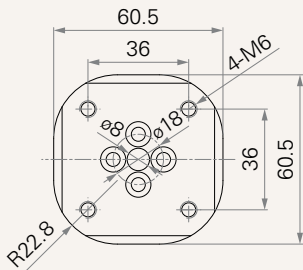
2 = M6, 36*36, TiMOTION standard



TL47S-3S / TL47S-2S



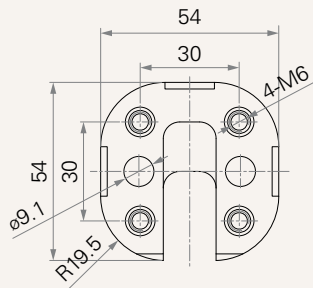
TL47S-3R



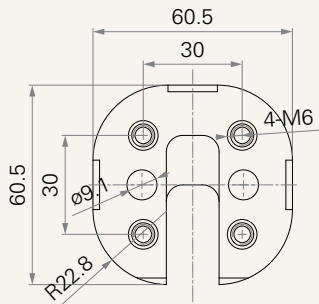
TL47S-2R

Top Plate Type (mm)

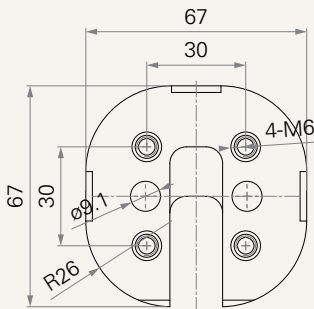
2 = M6, 30*30, TiMOTION standard



TL47S-3S



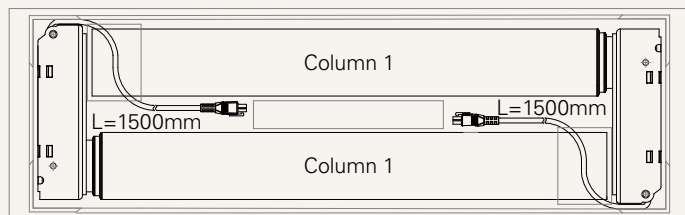
TL47S-2S



TL47S-3R / TL47S-2R

Package

Package of one TL part number



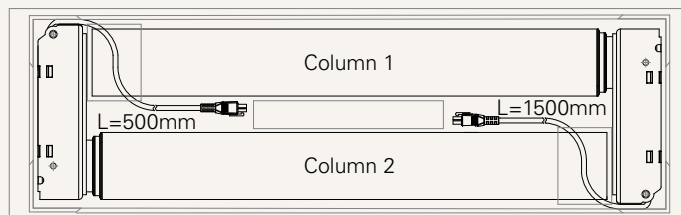
Column: 2pcs TL/box (Same PN & cable length)

Electronic control system: Without

TL47S-3 Weight with package: 14KG

TL47S-2 Weight with package: 13KG

Package of two TL part numbers in pairs



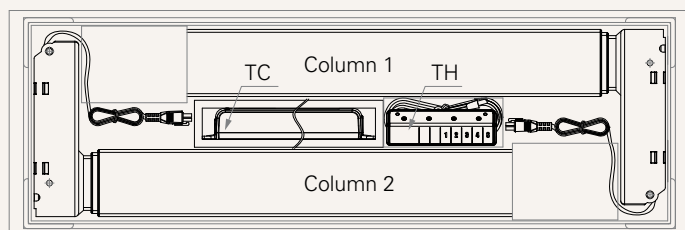
Column: 2pcs TL/box (Different PN, cable length, for pair use)

Electronic control system: Without

TL47S-3 Weight with package: 14KG

TL47S-2 Weight with package: 13KG

Package of MP part number set-TL in pairs + electronic control system



Column: 2pcs TL/box (Different PN, cable length, for pair use)

Electronic control system: TC + TH

TL47S-3 Weight with package: 15KG

TL47S-2 Weight with package: 14KG

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.
TiMOTION products are subject to change without prior notice.