

LS-SC16

COP Connection Board

Manual



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Serial or Parallel Multi-Purpose COP Connection Board LS-SC16

LS-SC16 is a connection board that is connected to the LS-INSP revision board with a single cable and can work with both serial-communication and parallel-connected COPs. It can be configured up to 16 stops in a single-board configuration, and up to 32 stops with two-board configuration. The connections, inputs and outputs on the board are as follows.

- Call inputs/outputs for up to 16 stops
- Jumper for 32 stop configuration
- Jumper for front or rear COP selection
- Gray/Binary code and direction arrow outputs for the car display
- Connection terminals for intercom or telephone
- Vatman (Warden) key connection input
- Door open and door close button inputs
- Overload output
- Emergency lighting connection terminals
- Car fan button input and button LED output
- Alarm button connection
- Announcement speaker connection terminals
- Short circuit protected outputs
- 3 programmable spare outputs

Serial or Parallel Multi-Purpose COP Connection Board LS-SC16

1. Connectors and Terminals

Connectors located on LS-SC16, and the explanations are as follows.

Connector	Type	Explanation
x1	4-pin	Can-BUS communication
x2	10-pin	LS-INSP connection

Connector	Type	Explanation
401	4-pin	Call buttons connection connectors
402		
403		
404		
405		
406		
407		
408		
409		
410		
411		
412		
413		
414		
415		
416		
DTS	4-pin	Door close button and button LED
DTO		Door open button and button LED
FAN		Car fan button and button LED

Terminals located on LS-SC16, and the explanations are as follows.

Terminal	Explanation
EMG	Emergency car lightning output
GND	24 VDC supply output (-)

Terminal	Explanation
SP+	Speaker connection (+) (Max 8ohm 1w)
SP-	Speaker connection (-) (Max 8ohm 1w)

Terminal	Explanation
24V	24 VDC supply output (+)
GND	24 VDC supply output (-)
01	Overload signal output
031	Down direction arrow signal output
032	Up direction arrow signal output
GB0	Gray/Binary display output terminals
GB1	
GB2	
GB3	
GB4	
GB5	

Terminal	Explanation
1A	7 Segment display output terminals
1B	
1C	
1D	
1E	
1F	
1G	
1X	
2X	
2G	

Terminal	Explanation
GND	24 VDC supply output (-)
OUT2	Reserved programmable output terminals
OUT1	

Terminal	Explanation
IN4	Reserved programmable input terminals
IN3	
IN2	
IN1	
812	Vatman (warden) key input
FANBL	Car fan button and button LED
DTS	Door close button and button LED
DTO	Door open button and button LED

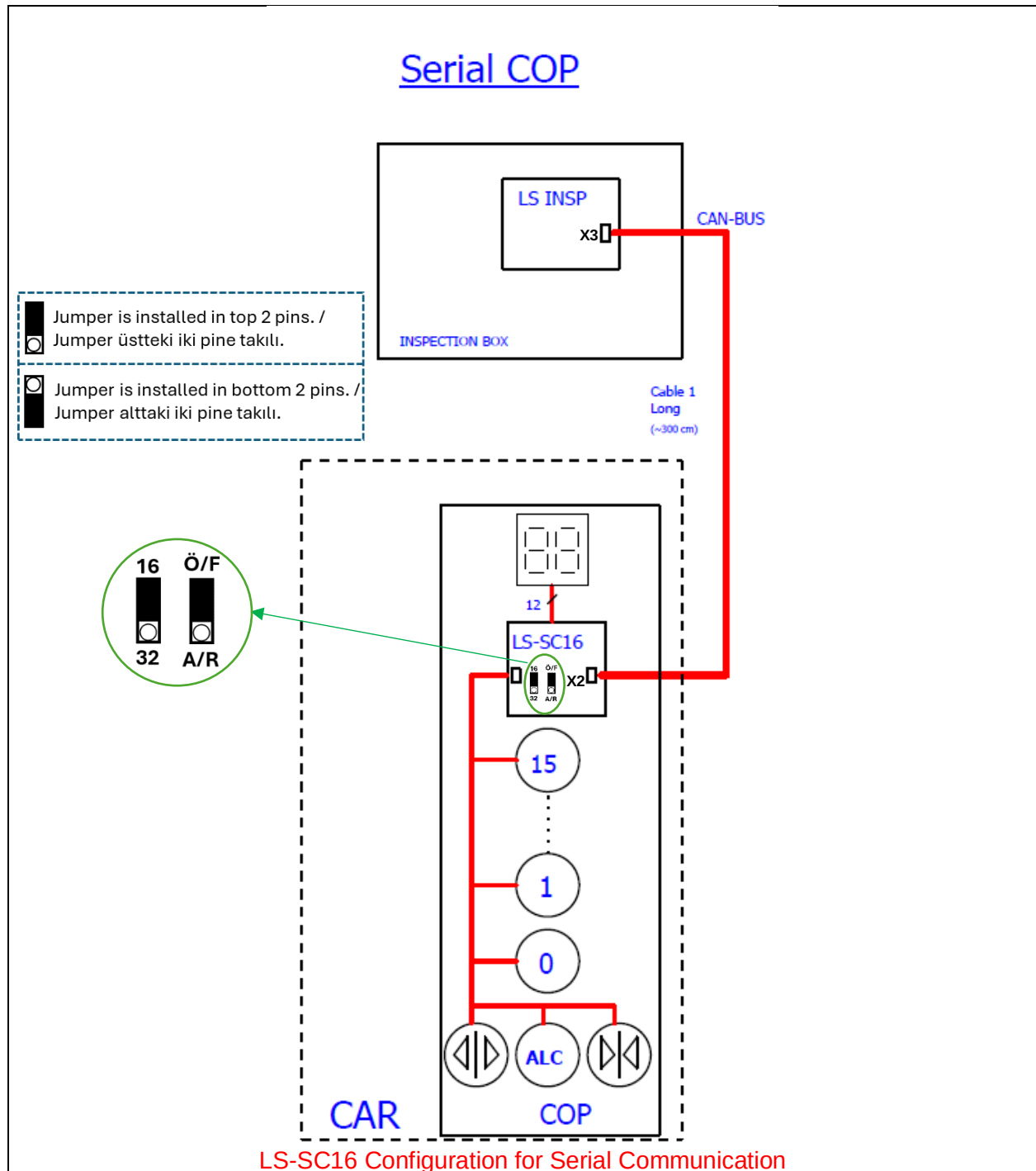
Terminal	Explanation
416	Call buttons connection terminals
415	
414	
413	
412	
411	
410	
409	
408	
407	
406	
405	
404	
403	
402	
401	
24V	24 VDC supply output (+)
GND	24 VDC supply output (-)

Serial or Parallel Multi-Purpose COP Connection Board LS-SC16

2.Board Configurations

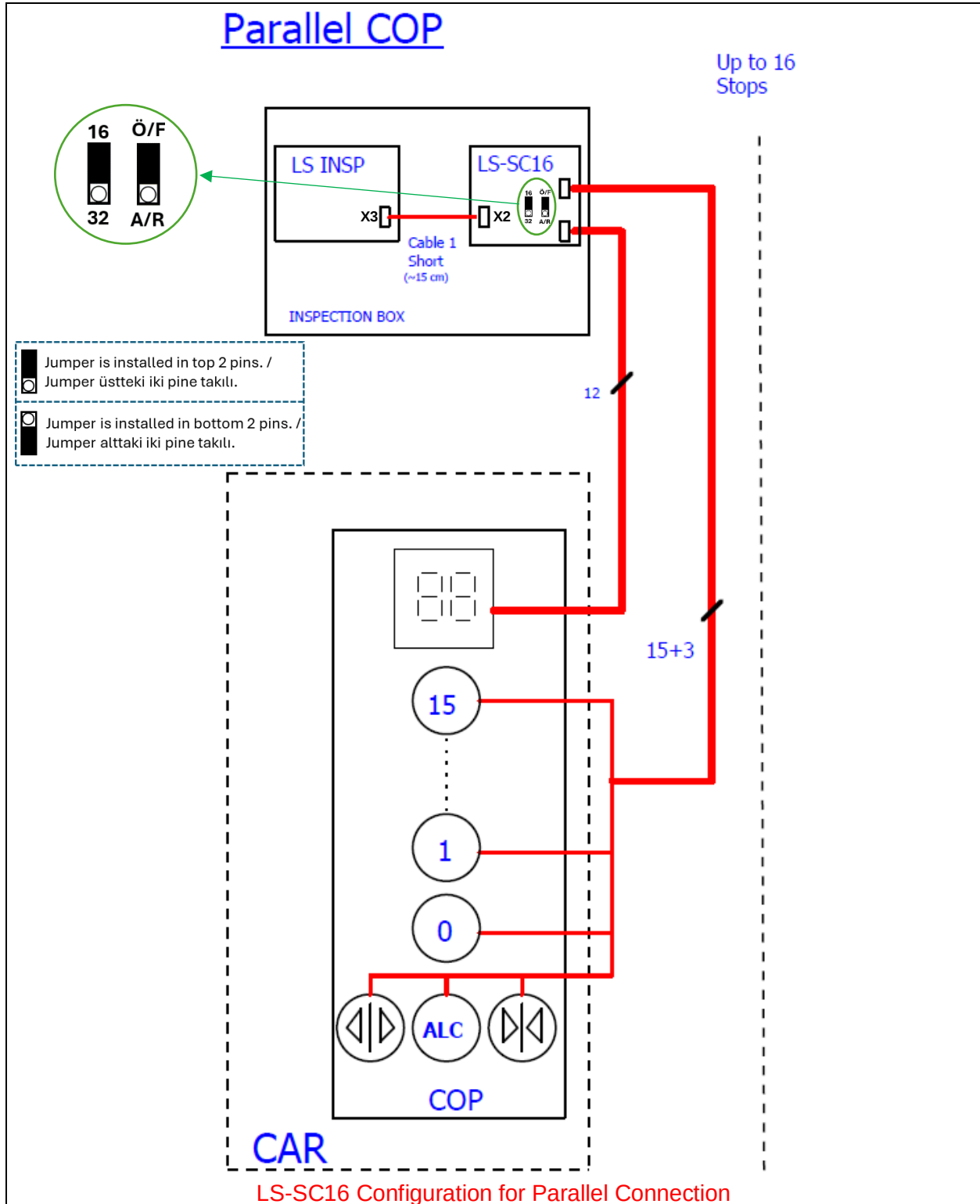
➤ 16 Stop Serial Communication Configuration

LS-SC16 board should be configured as below if the system is up-to 16 stops and COP is configured in serial communication.



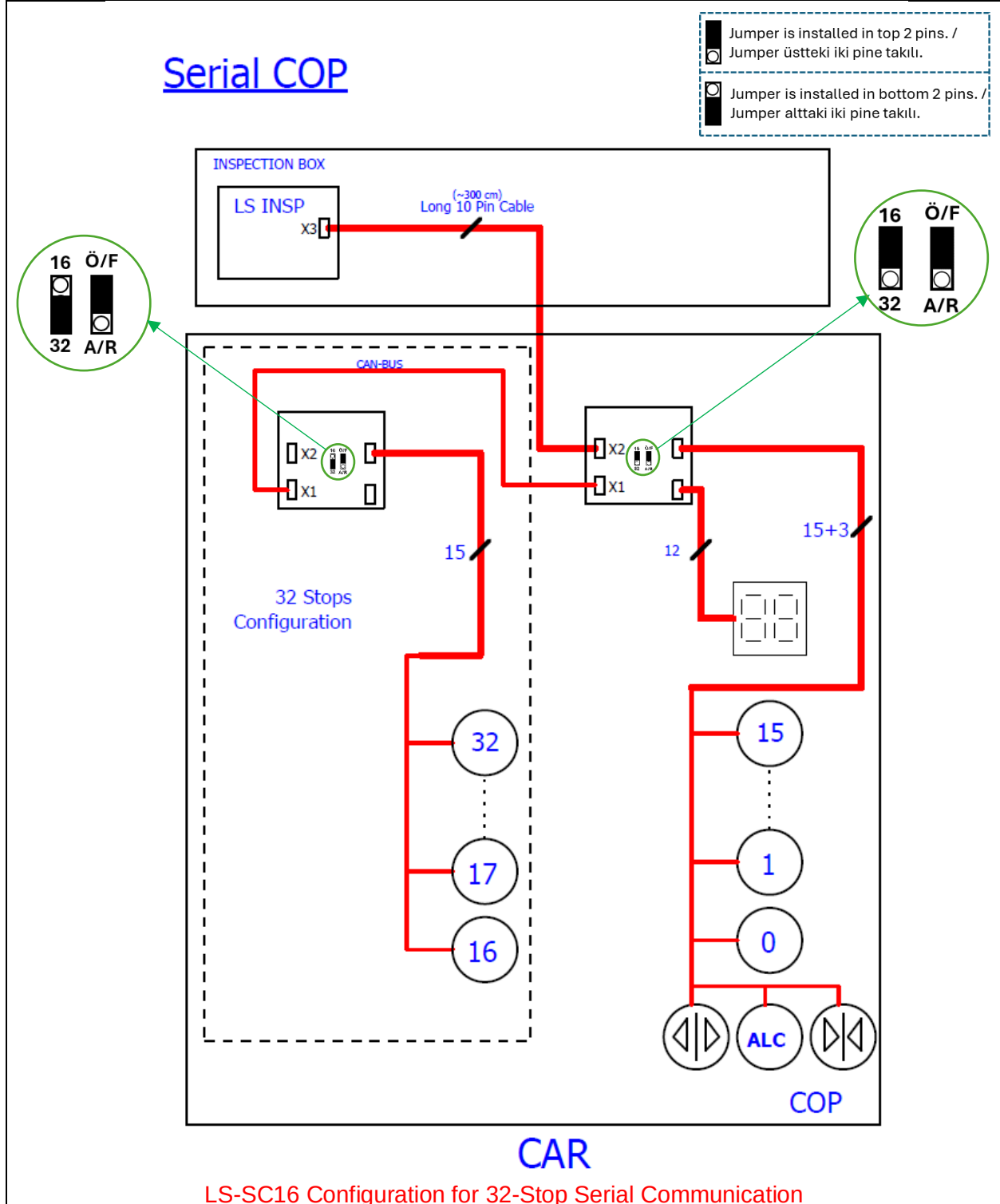
➤ 16 Stop Parallel Connection Configuration

LS-SC16 board should be configured as below if the system is up-to 16 stops and COP is configured in parallel connection communication.



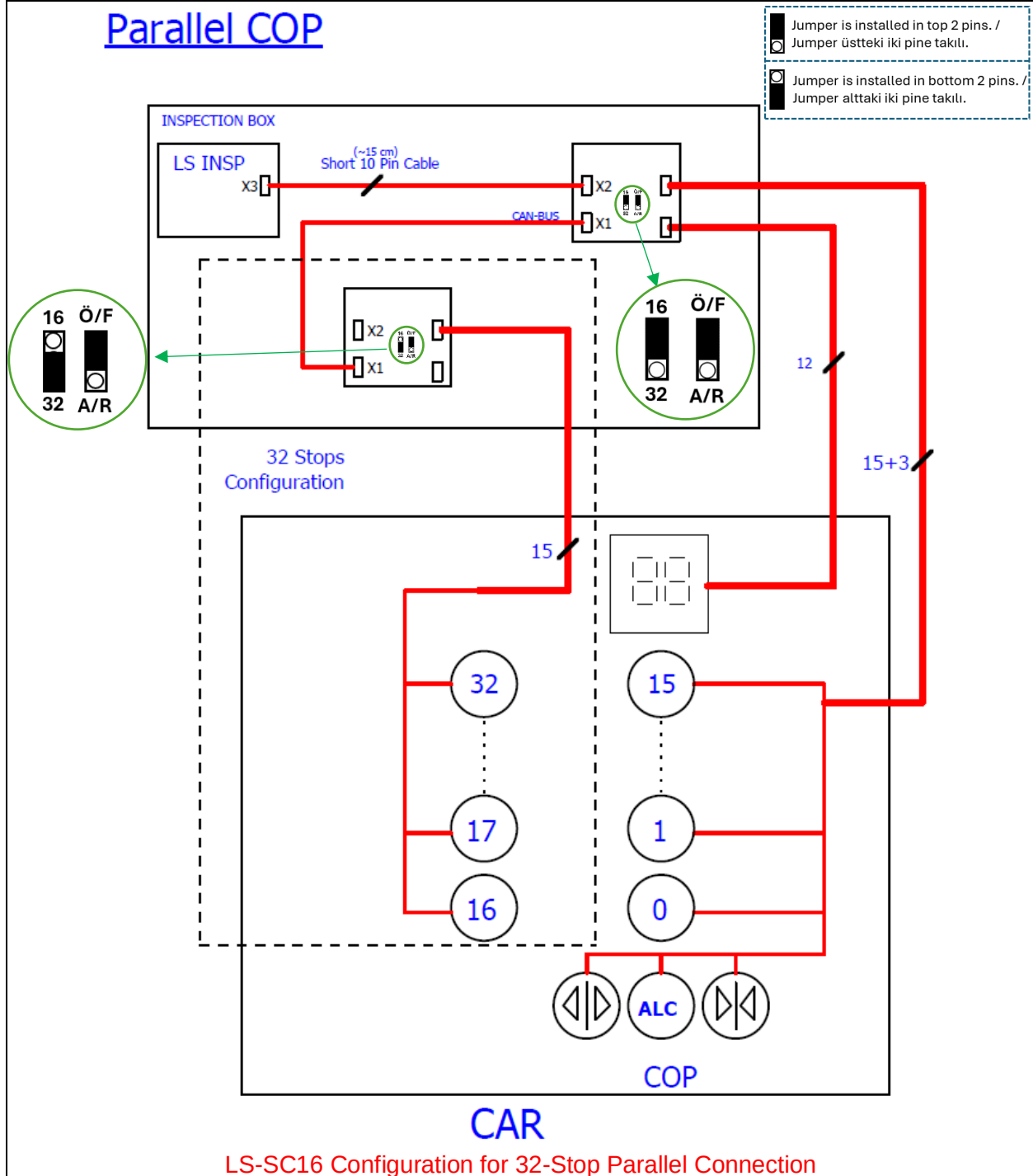
➤ 32 Stop Serial Communication Configuration

Two LS-SC16 boards and a connection cable are required for the systems between 17 to 32 stops. LS-SC16s should be configured as below if the system is 17 to 32 stops and COP is configured in serial communication.



➤ 32 Stop Parallel Connection Configuration

Two LS-SC16 boards and a connection cable are required for the systems between 17 to 32 stops. LS-SC16s should be configured as below if the system is 17 to 32 stops and COP is configured in parallel connection.

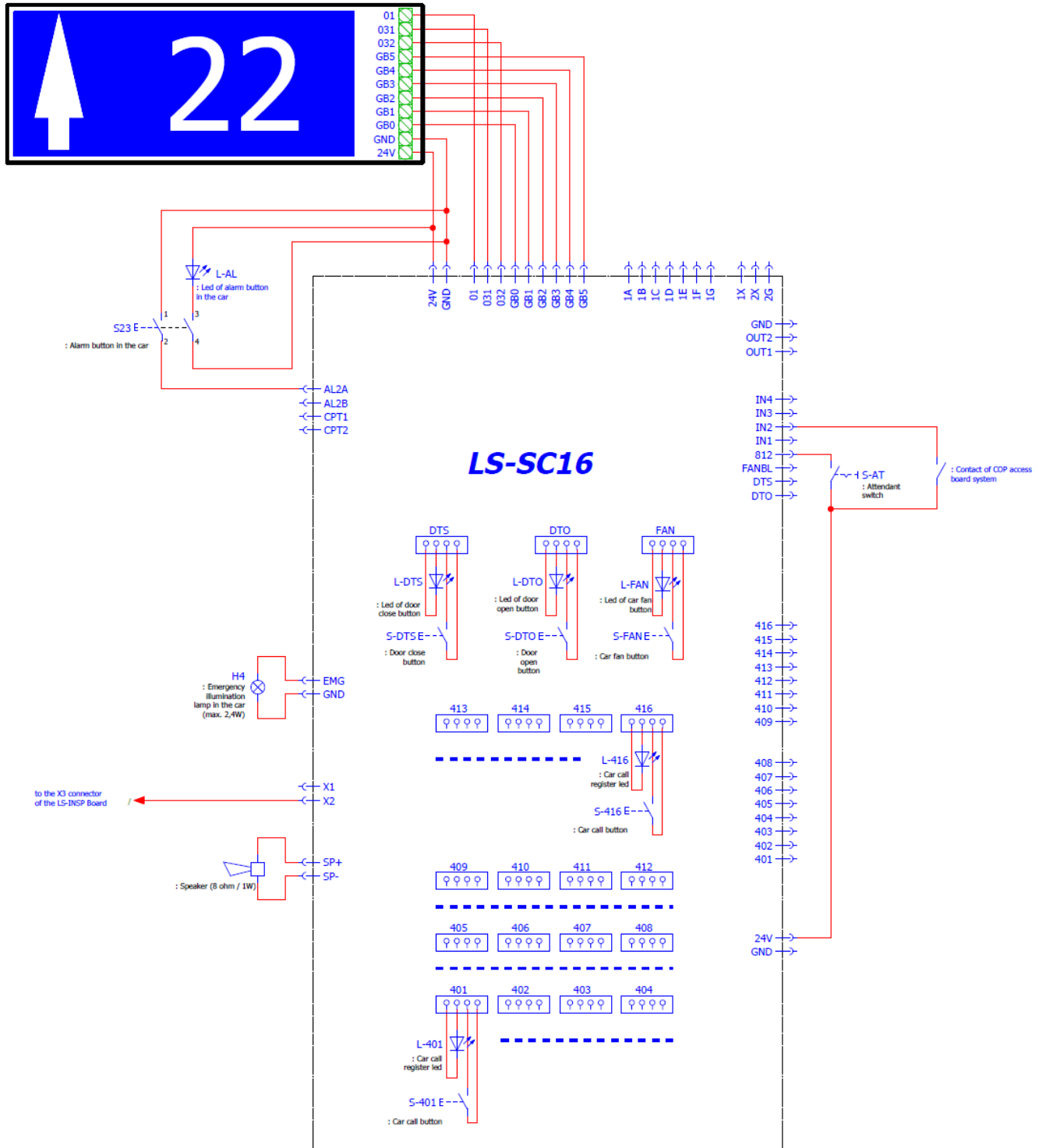


Serial or Parallel Multi-Purpose COP Connection Board LS-SC16

3. Board Connections

➤ Board Connections with Connectors

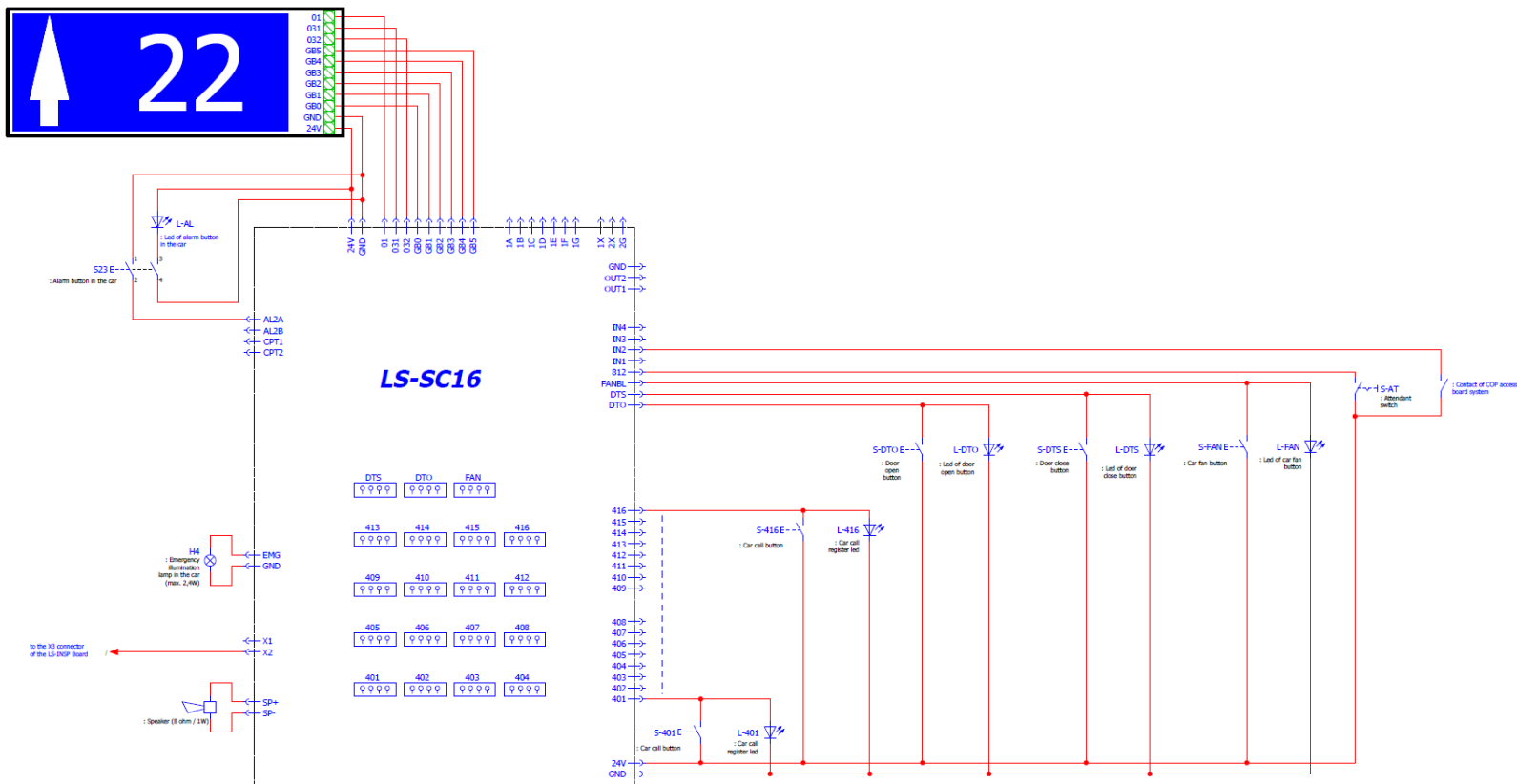
Electrical drawing for COP buttons with 4-pin connectors is provided below. This layout is commonly used with serial communication configurations.



Serial or Parallel Multi-Purpose COP Connection Board LS-SC16

➤ Board Connections with Terminals

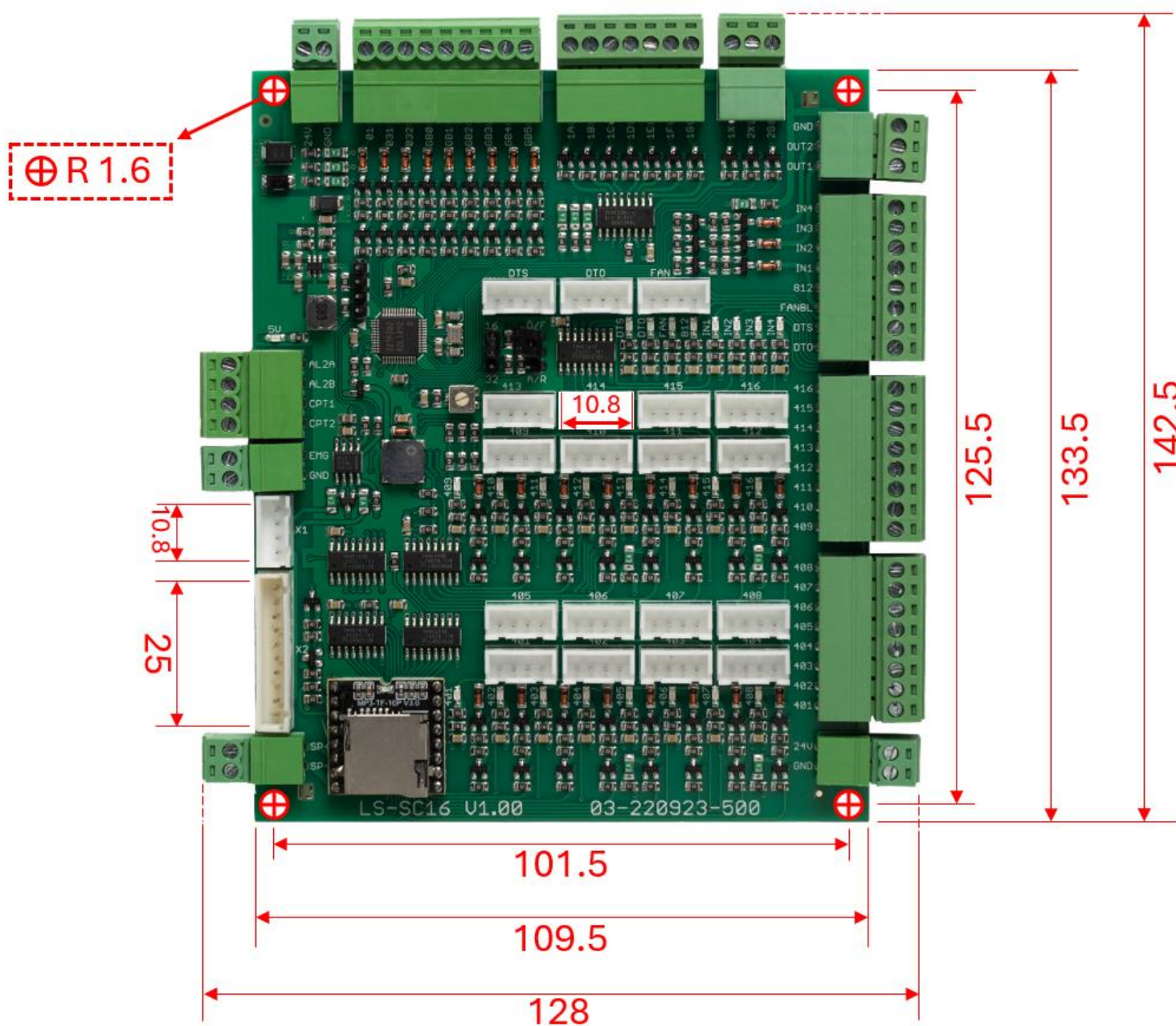
Electrical drawing for COP buttons with terminal type connection is provided below. This layout is commonly used with parallel connection configurations.



Serial or Parallel Multi-Purpose COP Connection Board LS-SC16

4. Board Dimensions

LS-SC16 board dimensions are provided below. All units are in mm.



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