



LOYTEC



LS-11CB



LS-11333CB

DESCRIPTION

The **Loytec L-Switch Series** is the solution for interconnecting multiple CEA-709 channels. It provides up to five ports and routes packets between these ports. In order to provide the optimal router configuration, the L-Switch comes with 2 to 5 ports as well as the two operating modes "Smart Switch Mode" and "Configured Router Mode".

FEATURES

- For physical separation and logical connection of up to 5 CEA-709 network segments
- Can be used as configured router
- Can be used as learning switch or repeater in Smart Switch Mode
- Plug & Play installation in Smart Switch Mode
- Forwards packets of up to 256 bytes length
- Supports up to four domains in Smart Switch Mode
- DIN-rail mountable

SPECIFICATIONS

Supply Voltage	12 to 35 VDC @ 125 mA, 12 to 24 VAC ± 10% @ 3 VA	Operating Temperature	32° to 122°F (0° to 50°C)
Supply Power	3W	Operating Humidity	10-90% RH @ 122°F (50°C) non-condensing
Communication Channels	Type CEA-709 (LON)	Dimensions	
LS-11333CB	LonMark System 2x TP/XF-1250, 3x TP/FT-10	LS-xxxxxCB	6.26"W x 3.94"H x 2.36"D (15.9 x 10.0 x 6.0 cm)
LS-11CB	LonMark System 2x TP/XF-1250	LS-xxCB	4.21"W x 3.94"H x 2.36"D (10.7 x 10.0 x 6.0 cm)
LS-13300CB	LonMark System 1x TP/XF-1250, 2x TP/FT-10	Weight	
LS-13333CB	LonMark System 1x TP/XF-1250, 4x TP/FT-10	LS-xxxxxCB	0.66 lb (0.30 Kg)
LS-13CB	LonMark System 1x TP/XF-1250, 1x TP/FT-10	LS-xxCB	0.49 lb (0.22 Kg)
LS-33300CB	LonMark System 3x TP/FT-10	Approvals	CE, FCC
LS-33CB	LonMark System 2x TP/FT-10	Warranty	2 years

DIP SWITCH SETTINGS

LS-xxCB[†]

1 2 3 4 5 6 7

OFF
ON

DIP1	DIP2	Function
ON	ON	Smart switch mode
ON	OFF	Repeater mode
OFF	ON	Smart switch mode/ subnet learning
OFF	OFF	Configured CEA-709 router [†] Configured EIA-709 router [†]

DIP3	Function (RS-485 version only)
ON	Bit-rate auto detection on
OFF	Bit-rate auto detection off

DIP4	Must be OFF
DIP5	Must be OFF
DIP6	Must be OFF
DIP7	Must be OFF

LS-xxxxxCB[†]

1 2 3 4 5 6 7

OFF
ON

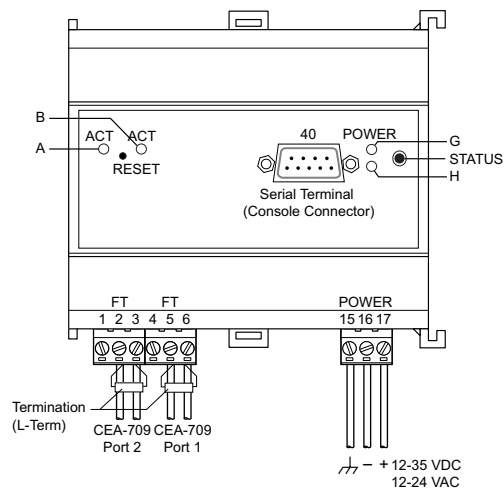


NETWORK

LON SWITCH ROUTER L-SWITCH SERIES

WIRING

LS-xxCB

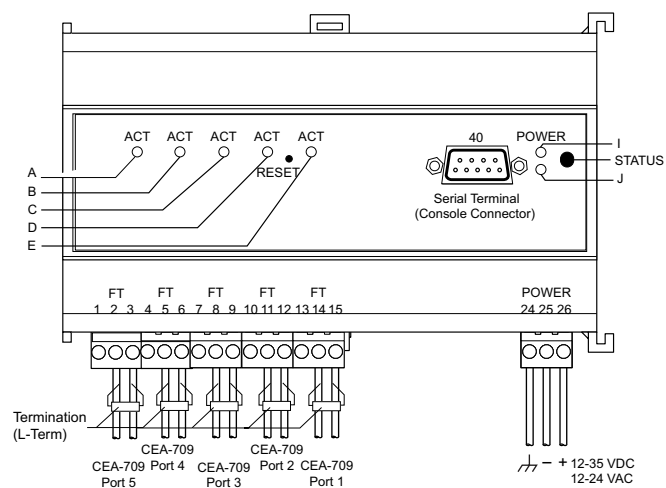


Connectors	
CEA-709	1 Input EARTH GND port 2
	2 Input B port 2
	3 Input A port 2
CEA-709	4 Input EARTH GND port 1
	5 Input B port 1
	6 Input A port 1
POWER	15 Power supply input EARTH GND
	16 Power supply input MINUS
	17 Power supply input PLUS
	⚠ Do NOT connect to EARTH GND
SERIAL	40 RS-232 Interface (DB9 male)

Status LEDs	
A	Green flashing fast Traffic port 2
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 2
B	Green flashing fast Traffic on port 1
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 1
G	Green Power
H	OFF Normal operation

Buttons	
RESET	Reset
STATUS	Send service pin message

LS-xxxxxvCB



Connectors	
CEA-709	1 Input EARTH GND port 5
	2 Input B port 5
	3 Input A port 5
CEA-709	4 Input EARTH GND port 4
	5 Input B port 4
	6 Input A port 4
CEA-709	7 Input EARTH GND port 3
	8 Input B port 3
	9 Input A port 3
CEA-709	10 Input EARTH GND port 2
	11 Input B port 2
	12 Input A port 2
CEA-709	13 Input EARTH GND port 1
	14 Input B port 1
	15 Input A port 1
POWER	24 Power supply input EARTH GND
	25 Power supply input MINUS
	26 Power supply input PLUS
	⚠ Do NOT connect to EARTH GND
SERIAL	40 EIA-232 (DB9 male)

Buttons	
RESET	Reset
STATUS	Send service pin message

Status LEDs	
A	Green flashing fast Traffic port 5
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 5
B	Green flashing fast Traffic on port 4
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 4
C	Green flashing fast Traffic on port 3
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 3
D	Green flashing fast Traffic on port 2
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 2
E	Green flashing fast Traffic on port 1
	Green flashing at 1 Hz Port not commissioned
	Red permanent CEA-709 port damaged
	Red flashing fast Traffic overload on port 1
I	Green Power
J	OFF Normal operation

ORDERING INFORMATION

MODEL	DESCRIPTION
LS-11333CB	L-Switch 2 x TP/XF-1250, 3 x TP/FT-10
LS-11CB	L-Switch 2 x TP/XF-1250
LS-13300CB	L-Switch 1 x TP/XF-1250, 2 x TP/FT-10
LS-13333CB	L-Switch 1 x TP/XF-1250, 4 x TP/FT-10
LS-13CB	L-Switch 1 x TP/XF-1250, 1 x TP/FT-10
LS-33300CB	L-Switch 3 x TP/FT-10
LS-33CB	L-Switch 2 x TP/FT-10