

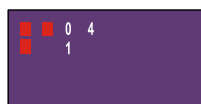
buslink @C014



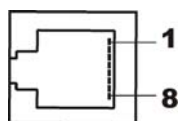
- LVDS @ctiveIO buslink with galvanic isolation
- @ctiveIO system bus extension up to 11.25m

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Pinout



LED	
0	3,3V DC
1	SYNC (no valid buslink)
4	LOCK (data transmission ok)



Pin	Signal
1	RxD +
2	RxD -
3	GND
4	GND
5	GND
6	GND
7	TxD +
8	TxD -
cable shielding	Case
Power	
1	24V DC
2	0V



Attributes

Applications:

Extension of systembus around 11.25 meter per LVDS buslink.
You need @C015 and @C014 together for one buslink.

Link Interface:

Highspeed LVDS bidirectional link with 1,25 GBaud

Link Cable:

Specification: CAT5e
Shielding: S/FTP
Wire: Cu 0.51 mm (AWG24)
Type (LVDS): crossover
Length: max. 11.25m
Connectors: RJ45 Hirose TM21P
Recommended cable: DRAKA UC 300 HS 24 4P

Electrical Data

Power supply external 24V DC \pm 20%, see notes
Operating Current 50mA at 24V DC
..... (only Controller, else depends from quantity of connected Modules)
Input protection 30V overvoltage, surge
Link interface LVDS bidirectional

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System Information

System IDno ID (only @C015 is visible in system bus)
 System address space.....need no space

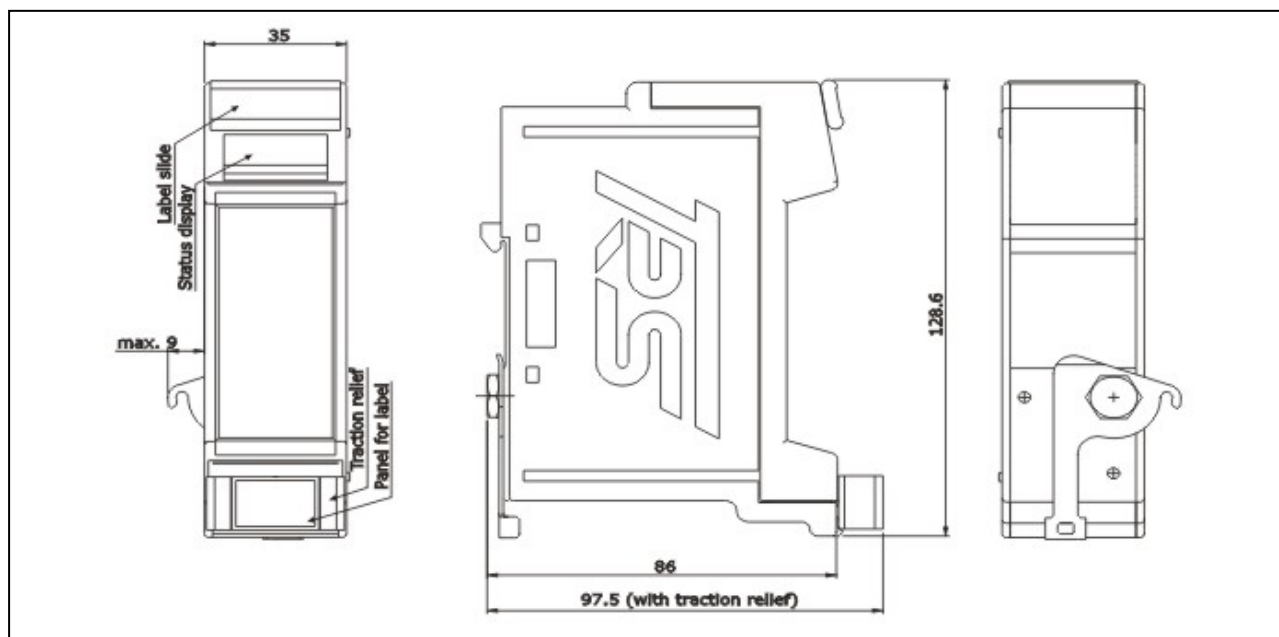
Environmental Conditions

Electromagnetic compatibility (EMC) EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
 Operating temperature [°C] 0...+55
 Storage temperature [°C] -20...+70
 Humidity (rel)..... 98% (non condensing)
 Protection class* IP20 (DIN 40 050)
 *The protection class is valid only with housing and connector installed

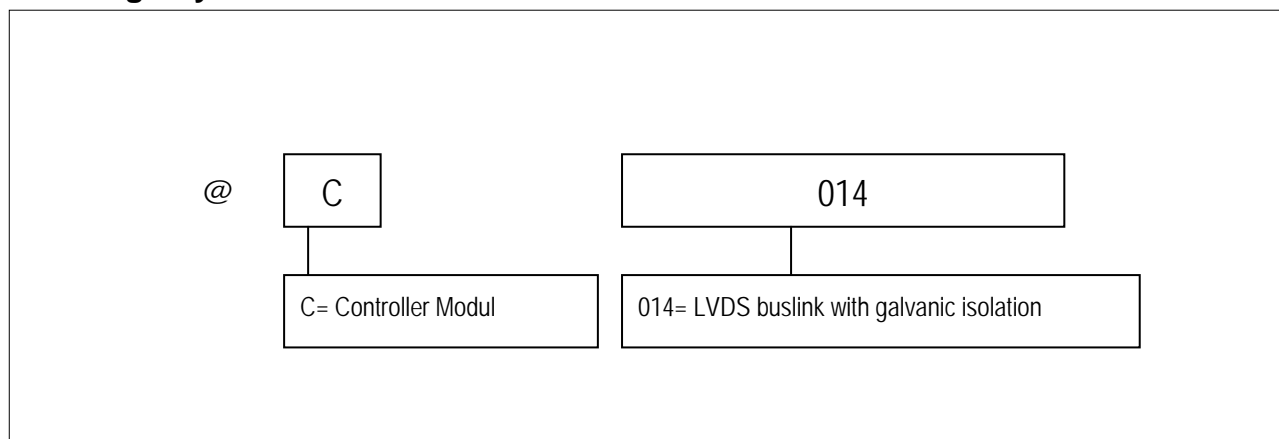
Mechanical Data PCB

Weight..... approx. 0.05 kg including connector
 Dimension 105mm x 80mm x 12mm

Drawing (effective if mounted in @M housing)



Ordering Key

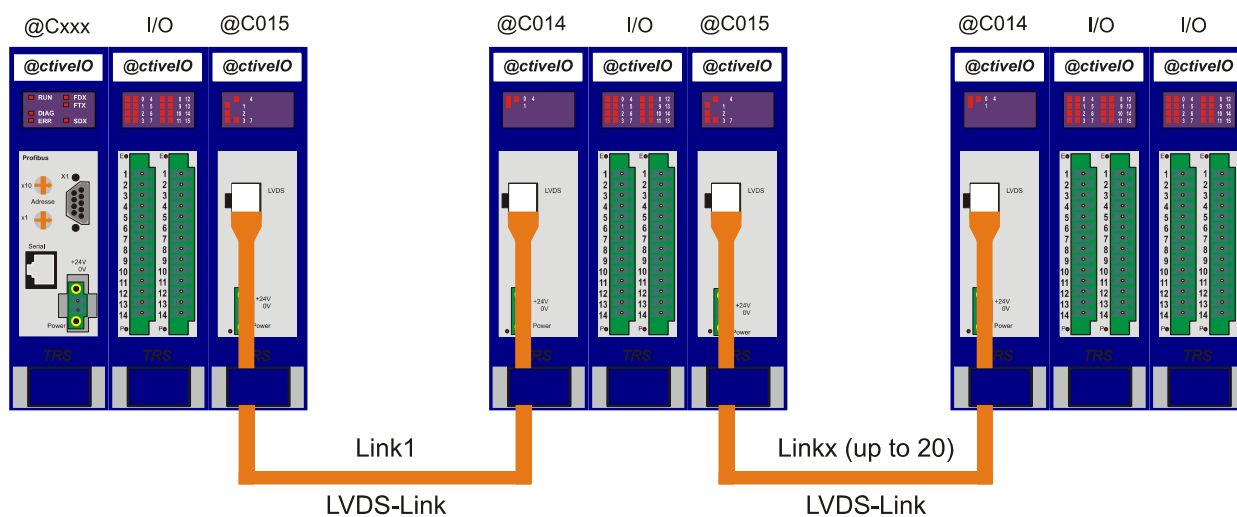


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buslink @C014

Example of Application

Connection and application of the sytembus extension



Installation notes for the connection cable

To ensure a failure-free functioning of the connection cable, note the following points:

- do not bend the cable (bending radius > 50mm) and do not put the cable under mechanical stress
- do not install the cable near strong electrical (230/400V power line) and magnetical fields
- all connection plugs must stuck firmly and be secured by a pull relief

buslink @C014

notes:

Description of the LEDs

LED		Status	Description
0	3,3V	ON	Power supply and +24V connection are O.K.
1	SYNC	ON	LVDS transmission chip start synchronisation, no valid data transmission possible
4	LOCK	ON	LVDS link connection work properly

Caution

In SYNC state the @C015 module generates a TIMEOUT, the CPU check this state and creates a RESET-signal. So if lost LOCK, all outputs will be switched off.

History

Version	Description	Date (m/y)
00	Release	08/04
01	Added: Installation notes for connection cable	12/06
02	Pinout images changed	11/07