

Steckerbelegung / Pin assignment

LMRI-46 / LMPI-46 POWERLINK V2.0 (CiA DS-406)

Die Schirmung ist großflächig auf das Gegensteckergehäuse aufzulegen!

The shielding is to be connected with large surface on the mating connector housing!

X1 = PORT2 X3 = PORT1	POWERLINK, Flanschdose / Female socket (M12x1-4 pol. D-coded)			Steckseite / Mating Face	
1	TxD+	Sendedaten +	Transmission Data +		
2	RxD+	Empfangsdaten +	Receive Data +		
3	TxD-	Sendedaten -	Transmission Data -		
4	RxD-	Empfangsdaten -	Receive Data -		

X2	Flanschstecker / Male socket (M8x1-4 pol. / M12x1-4 pol. A-coded)		Steckseite / Mating Face	M8	M12	
1	19 – 27 V DC	Versorgungsspannung / Supply voltage			1	2
2	¹⁾ TRWinProg +				2	1
3	GND, 0V	Versorgungsspannung / Supply voltage			3	3
4	¹⁾ TRWinProg -				4	4

¹⁾ für Servicezwecke, z.B. Softwareupdate / for service purposes, e.g. software update

POWERLINK Node-ID

Über die Hex-Adress-Schalter SW1 und SW2 wird die POWERLINK Node-ID eingestellt: SW1 = 16⁰, SW2 = 16¹
Gültige Adressen = 1...239 (1...0xEF).

*By means of the hex address switches SW1 and SW2 the POWERLINK Node-ID is adjusted: SW1 = 16⁰, SW2 = 16¹.
Valid addresses = 1...239 (1...0xEF).*

LEDs

LED 1: POWERLINK Status (rot, grün / red, green)

LED 2: PORT2, Link/Data Activity (rot, grün / red, green)

LED 3: PORT1, Link/Data Activity (rot, grün / red, green)

LED 4: ENCODER Status (rot, grün / red, green)

Steckerbelegung / Pin assignment

LED-Status	Anzeigezustände und Blinkfrequenz / <i>Indicator states and flash rates</i>						
ON	permanent AN / <i>constantly ON</i>						
OFF	permanent AUS / <i>constantly OFF</i>						
Flickering	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>50ms</td><td>50ms</td></tr></table>	50ms	50ms				
50ms	50ms						
Blinking	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>200ms</td><td>200ms</td></tr></table>	200ms	200ms				
200ms	200ms						
Single flash	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>200ms</td><td>1000ms</td></tr></table>	200ms	1000ms				
200ms	1000ms						
Double flash	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>200ms</td><td>200ms</td><td>200ms</td><td>1000ms</td></tr></table>	200ms	200ms	200ms	1000ms		
200ms	200ms	200ms	1000ms				
Triple flash	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>200ms</td><td>200ms</td><td>200ms</td><td>200ms</td><td>200ms</td><td>1000ms</td></tr></table>	200ms	200ms	200ms	200ms	200ms	1000ms
200ms	200ms	200ms	200ms	200ms	1000ms		

POWERLINK Status, State Machine

grün / <i>green</i>	
OFF	NMT_GS_OFF, NMT_GS_INITIALISATION, NMT_CS_NOT_ACTIVE
Flickering	NMT_CS_BASIC_ETHERNET
Single flash	NMT_CS_PRE_OPERATIONAL_1
Double flash	NMT_CS_PRE_OPERATIONAL_2
Triple flash	NMT_CS_READY_TO_OPERATE
ON	NMT_CS_OPERATIONAL
Blinking	NMT_CS_STOPPED

ON = rot / <i>red</i>	POWERLINK Fehler / <i>POWERLINK error</i>
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ENCODER Status	Beschreibung / <i>Description</i>
OFF	- Spannungsversorgung fehlt oder wurde unterschritten / <i>Voltage supply absent or too low</i> - Hardwarefehler, Mess-System defekt / <i>Hardware error, measuring system defective</i>
ON = grün / <i>green</i>	Mess-System betriebsbereit (kein Fehler) / <i>Measuring system ready for operation (no error)</i>
ON = rot / <i>red</i>	Mess-System-Fehler aufgetreten / <i>Measuring system error occurred</i>

Link/Data Activity	Beschreibung / <i>Description</i>
OFF	keine Ethernet Verbindung / <i>No Ethernet connection</i>
ON (Link) = grün / <i>green</i>	Ethernet Verbindung hergestellt / <i>Ethernet connection established</i>
Flickering (Data Activity) = gelb / <i>yellow</i>	Datenübertragung TxD/RxD / <i>Data transfer TxD/RxD</i>

Bestellangaben zur Ethernet Flanschdose M12x1-4 pol. D-kodiert /
Order data for Ethernet flange socket M12x1-4 pin D-coded

Hersteller / <i>Manufacturer</i>	Bezeichnung / <i>Designation</i>	Bestell-Nr.: / <i>Order no.:</i>
Binder	Series 825	99-3729-810-04
Phoenix Contact	SACC-M12MSD-4CON-PG 7-SH (PG 7)	15 21 25 8
Phoenix Contact	SACC-M12MSD-4CON-PG 9-SH (PG 9)	15 21 26 1
Harting	HARAX® M12-L	21 03 281 1405