LG-µCAN11_Eng-000

Advanced datalogger and interface unit





CAN/GPS connector



TYCO 34PM

Key Features:

- > The datalogger has the following channels:
 - o 96 CAN input
 - o 8 analog input
 - o 3 digital input
 - o 1 lap input
 - o 1 digital output
 - o 3 axis accelerometer build in
 - o 2 system channels (supply voltage and module temperature)
 - o 15 GPS channels
- 2 completely independent CAN lines with full CAN routing
- GPS laptime (standard)
- Integrated 3 axis accelerometers ±6G
- External power supply 8-18V
- > Storage rate up to 800Hz/channel
- All channels individual programmable
- Compact, rigid and lightweight (170g) aluminum housing
- > Easy connection of sensor signals through single AMP connector (=interface unit)



Tel: +49 (0) 721 944 85-0

Fax: +49 (0) 721 944 85-29

LG-µCAN11_Eng-000

Advanced datalogger and interface unit

Technical spe	

Logging (predefined)					
,			Digital output channel		
Memory	GB 2		3		1
Storage rate	Hz Max 800/ch		Full protected		Yes
Internal sampling rate on analog channels	kHz	6.4	Sink current (up to)	mA	200
CAN lines (factory default)			Internal channels (resolution)		
2D		In-/output	3 axis acceleration	m/s ²	0.02
EXT		In-/output	VextMsq	V	0.01
CAN channels		. 64	CPUTempMsg	°C	0.1
Speed	kbaud	125/250/500/1000			
CAN-line termination switchable		Off/120Ω	Electrical characteristics		
Recordable CAN identifiers		Unlimited		V	8-18
Identifiers CAN 2.0A (base frame)	bit	11	,	•	0 10
Identifiers CAN 2.0B (extended frame)	bit	29			
identifiers CAN 2.0D (extended frame)	Dit	20	@12V w/o GPS w/o sensors	mA	90
Analan innut ahannala					
Analog input channels			@12V w GPS w/o sensors	mA	120
Single ended inputs (AIN1 to AIN8)		4 (41514101510)			
With pullup @5V		4 (AIN1 2 5 6)		∞ Λ	200
Without pullup	h:t	4 (AIN3 4 7 8)		mA m^	
Resolution	bit V	16 0-5		mA W	100 2.5
Input voltage range Input filter	V	0-0	Z max output	VV	2.5
Cut off frequency (-3dB)	Hz	100	Environmental characteristics		
	dB	100		°C	0-75
Damping (per decade)	uБ	12	Operating temperature Humidity	%	5-95
Digital input channels			Sealing class	70 IP	5-95 66
Input capture: DIN1 – DIN3		3		IF.	00
DIN1 - DIN3 with pullup@5V		Yes			
Max input frequency	kHz	10		G	40
DIN1/DIN3 (V_front, RPMSprkt)	KIZ	Lo IH		ms	10
Threshold (level1)	V	1.7 3.4		G	12
Threshold (level2)	V	0.4 1.0		Hz	1000
Cut-off frequency (-3dB)	kHz	10		112	1000
DIN2 (RPM)	IXI IZ	Lo H			
Threshold (level1)	V	3.5 8.3			
Threshold (level2)	V	1.7 3.4	. –		
Cut-off frequency (-3dB)	kHz	4.8			
LAP	14112				
With pullup@5V		Yes			
Cut-off frequency (-3dB)	Hz	100			
Resolution	mV	5			
Trigger threshold programmable		yes			

^{*} If the logger is only supplied by USB power during setup or download all analog, digital and GPS input channels are switched off to ensure no damage is done to USB port of PC due to overload.



 \bigvee On power up the logger sends automatically a CAN message on CAN 2D, ID 0x01 at baud rate 1M.

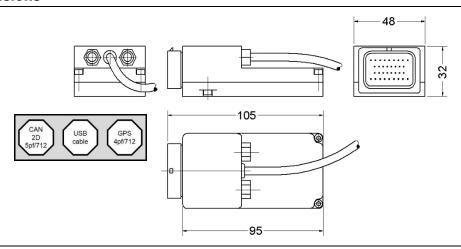
2D Debus & Diebold Meßsysteme GmbH

Tel: +49 (0) 721 944 85-0 • Fax: +49 (0) 721 944 85-29

LG-µCAN11_Eng-000

Advanced datalogger and interface unit

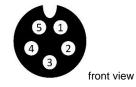
Dimensions



Connector layout

Connector type

CAN 2D, Binder /12 5PF				
Pin	Name	Description	Color	
1	CAN H	CAN High (2D)	white	
2	CAN L	CAN Low (2D)	green	
3	GND	Ground	black	
4	n.c.	Not connected		
5	Vext	Power in (8-18V)	red	



USB, Type B socket

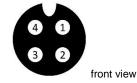
Pin	Name	Description	Color
1	Vcc	Power supply +5V	red
2	Data-	Data line -	white
3	Data+	Data line +	green
4	GND	Ground	black



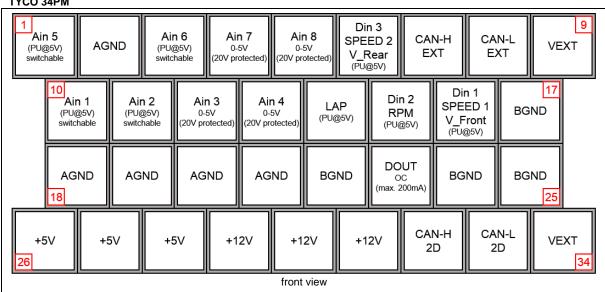
front view

GPS,	Bind	ler 7	12	4P	F

Pin	Name	Description	Color
1	TxD	Data line	green
2	RxD	Data line	white
3	GND	Ground	black
4	Vcc	Power supply	red



TYCO 34PM



The specifications on this document are subject to change at 2D decision. 2D assumes no responsibility for any claims or damages arising out of the use of this document, or from the use of modules based on this document, including but not limited to claims or damages based on infringement of patents, copyrights or other intellectual property rights.

19.03.2018/LK