



Module



CAN/GPS connector



TYCO 34PM

Key Features:

- *Datalogger with 97 channels:*
 - 64 CAN
 - 8 Analog input
 - 4 Digital input
 - 1 Lap input
 - 1 Digital output
 - 3 axis accelerometer build in
 - 2 system channels (supply voltage and module temperature)
 - 15 GPS channels
- *2 completely independent CAN lines with full CAN Routing*
- *GPS laptime (standard)*
- *Integrated 3 Axis accelerometers ± 6G*
- *External power supply 8-20V*
- *Storage rate up to 800 Hz / channel*
- *All channels individual programmable*
- *Compact, rigid and lightweight (150g) aluminium housing*
- *Easy connection of sensor signals through single AMP connector (= Interface Unit)*

LG-µCAN11_Eng-000

Advanced Datalogger and Interface Unit

Technical Specifications

Logging (predefined)				Digital output channel			
Channels		97		Digital output (with open collector)		1	
Memory	GB	2		Full protected		✓	
Storage rate	Hz	Max. 800/Ch		Sink current (up to)	mA	200	
Internal sampling rate on analog channels	kHz	6.4					
CAN lines(factory default)				Internal channels (resolution)			
• 2D	In-/Output			3 axis acceleration	[m/s ²]	0.02	
• EXT	Input			VextMsg	[V]	0.01	
CAN channels		64		CPUTempMsg	[°C]	0.1	
Speed		125/ 250/ 500/ 1000		Electrical characteristics			
CAN-line termination switchable		✓(off/120Ω)		Power supply	[V]	8-20	
Recordable CAN identifiers		unlimited		Or USB Bus powered(5V) as well*			
Identifiers CAN 2.0A(base frame)	bit	11		Current consumption:			
Identifiers CAN 2.0B(extended frame)	bit	29		@ 12V w/o GPS w/o Sensors	[mA]	90	
				@ 12V w GPS w/o Sensors	[mA]	120	
Analog input channels				Sensor supplying max. values			
Single ended inputs (AIN1. to AIN8)		8		Max. current output(+12V)	[mA]	200	
With pullup@5V		4 (AIN 1 2 5 6)		Max current output(+5V)	[mA]	100	
Without pullup		4 (AIN 3 4 7 8)		Σ max. output	[W]	2.5	
Resolution	Bit	16		Environmental characteristics			
Input voltage range	V	0-5		Operating temperature	°C	0 - 75	
Input filter				Humidity	%	0 to 95	
Cut-off frequency (-3dB)	Hz	100		Sealing class	IP	66	
Damping (per decade)	dB	12					
Digital input channels							
Input capture: DIN1 - DIN3		3		Vibration resistance			
DIN1 - DIN3 with pullup@5V		✓		Shock	G	40	
Max input frequency	kHz	10		During time period of	ms	10	
DIN1/DIN3 (V_front, RPMSprkt)		Lo	Hi	Vibration tested @	G	12	
Threshold (level1)	V	1.7	3.4	Measured with	Hz	1000	
Threshold (level2)	V	0.4	1.0				
Cut-off frequency (-3dB)	kHz	10					
DIN2 (RPM)							
Threshold (level1)	V	3.5	8.3				
Threshold (level2)	V	1.7	3.4				
Cut-off frequency (-3dB)	kHz	4.8					
LAP				Ordering information			
With pullup@5V		✓		For ordering this product use 2D			
Cut-off frequency (-3dB)	Hz	100		article number:	LG-µCAN11_Eng-000		
Resolution	mV	5					
Trigger threshold programmable		✓					

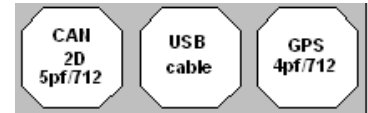
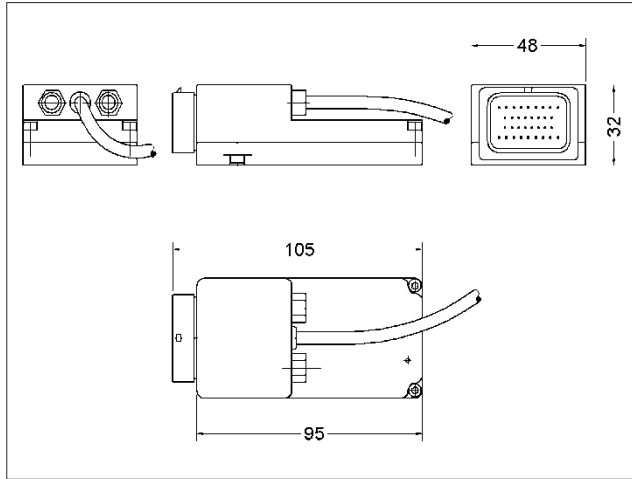
*If the logger is only supplied by USB-power during setup or download you have to ensure whether your USB-port can supply a minimum output current of 700mA or you have to disconnect all sensors from the logger.

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

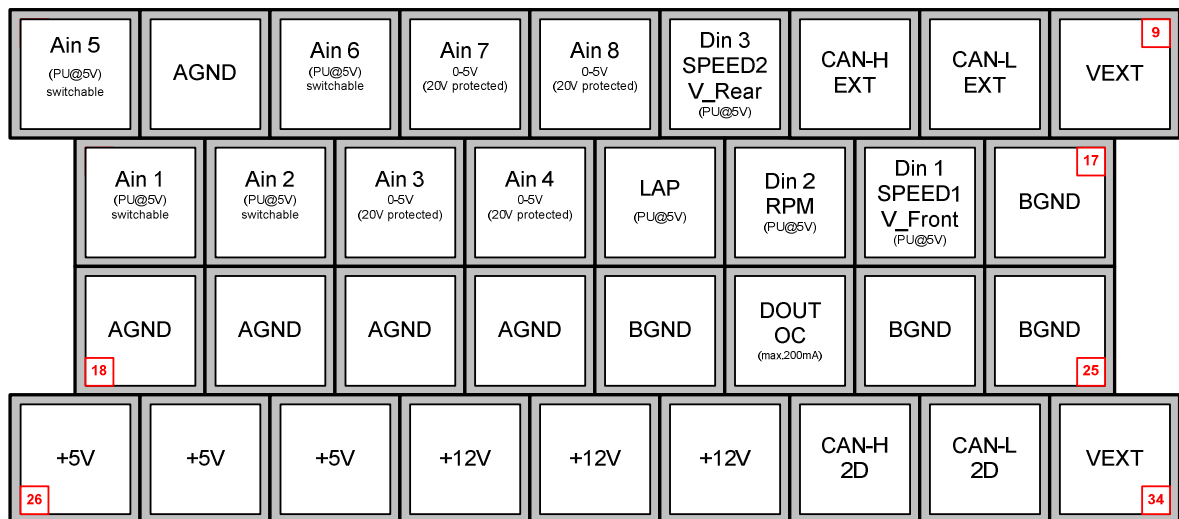
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Advanced Datalogger and Interface Unit

Dimensions



Connector Layout (34 pin AMP connector)

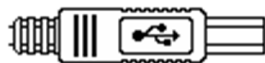


(rear view: Tyco pin lead in)

Connector type



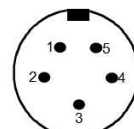
USB type-B socket (front side)



USB type-B plug (front side)



Binder 712, 5PF (front side) Plug at module



Binder 712, 5PM (front side) mating plug

PIN	Name	Description	Color
1	CAN H	Can Bus High	white
2	CAN L	Can Bus Low	green
3	GND	Ground	black
4	n.c.	Not connected	-
5	Vext	Power IN (4-18V)	red