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SY-Wheel_Lock-000 — Wheel Locking System

Function

Box CAN calculator with 8 CAN input channels and 8 internal calculation channels. Possible to connect 2 x LED units (=AC-Wheel_Lock_LED-000) for visualization.

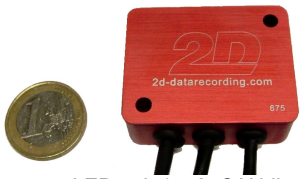
Areas of application

The System can be used for recognition and visualization of wheel locking. 3 CAN channels (wheel speed front right & left and brake pressure) serve the calculation unit as recognition of locking.

Features

- Full CAN-bus interface (CAN 2.0A & CAN 2.0B)
- 8 x CAN input channels
- 8 x CAN calculation channels
- All usual arithmetic operations can be used. (Refer to datasheet BC-CALC-000 for detailed information)
- Simple expandability also to supervise the brake balance

BC-Wheel_Lock-000



1xBinder 712, 5PM

2xBinder 719, 5PF

LED unit 1 2 CAN-line

AC-Wheel_Lock_LED-000

Binder 719, 5PM

red / red / yellow / green

Technical specifications

Electrical characteristics

Power supply	8-18	V DC
Current consumption@12V		
only CAN module	typ. 20	mA
with 2 connected LED units.	typ. 150	mA

CAN-Interface

CAN send ID's (calc channels)	8	ID's
CAN baudrates (software switchable by 2D WinIt)	100/125/250/500/1000	kBaud
Channel resolution	16	Bit
CAN identifiers:		
CAN 2.0A	11	Bit
or CAN 2.0B	29	Bit

Environmental data

Ambient operating range	-10 to +75	°C
Humidity	5 - 95	%
Sealing class	IP	67

Connections

2D CAN-line	Binder 712, 5PM
2D fourfold LED unit (AC-Wheel_Lock_LED-000)	Binder 719, 5PF

Mechanical characteristics

Dimensions		
BC-Wheel_Lock-000	44x34x15	mm
AC-Wheel_Lock_LED-000	45x15x12	mm
Weight		
BC-Wheel_Lock-000	42	g
AC-Wheel_Lock_LED-000	18.5	g
Housing material	aluminium	
Cable (CAN-line)		
type	Raychem EPD	
wire cross section	4 x AWG	26
length	200	mm
Cable (LED output)		
type	Raychem EPD	
wire cross section	5 x AWG	26
length	200	mm
Cable (AC-Wheel_Lock_LED)		
type	Raychem EPD	
wire cross section	5 x AWG	26
length	300	mm

Vibration resistance

Shock	40	G
	10	ms
Vibration tested at	12	G
	1000	Hz

Ordering information

Art.No.:.....SY-Wheel_Lock-000

2D Debus & Diebold Meßsysteme GmbH
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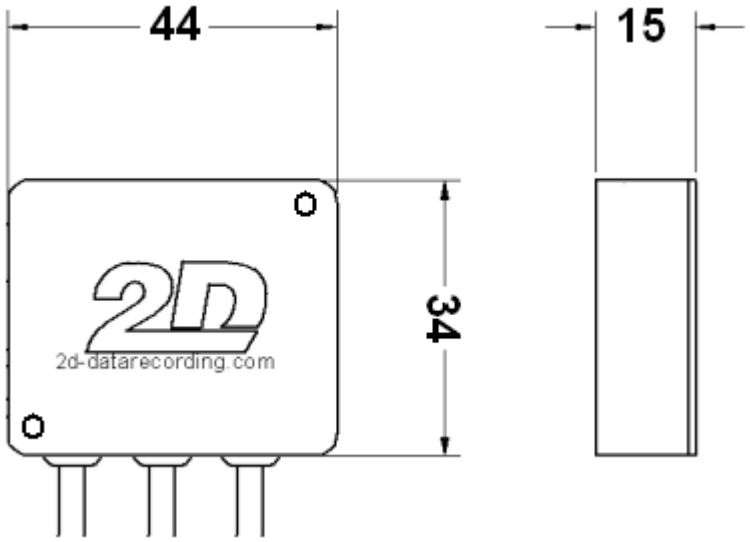
SY-Wheel_Lock-000 — Wheel Lock unit system

Dimensions



Connector layout

CAN-line (standard)

CAN-line Binder 712, 5pin

Pin	Name	Description	Color (standard)
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 (8-18V)	red

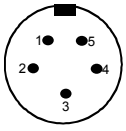
LED unit (AC-Wheel_Lock_LED-000)

Analog-line Binder 719, 5pin

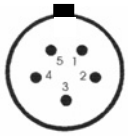
Pin	Name	Description	Color (standard)
1	LED 1	Ground LED 1	white/green
2	Power	Power supply	red
3	LED 2	Ground LED 2	white/yellow
4	LED 3	Ground LED 3	white/red
5	LED 4	Ground LED 4	white/brown

Connector type

Plug at module



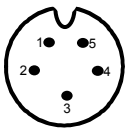
Binder 712, 5 PM
(front side)



Binder 719, 5 PF
(front side)

Mating plug

Binder 712, 5 PF
(front side)



Binder 719, 5 PM
(front side)

On request some options are available for the CAN-line connector of all 2D CAN modules. Please take a look at the product group [Connectors] in the 2D Product catalog

2D Debus & Diebold Meßsysteme GmbH
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