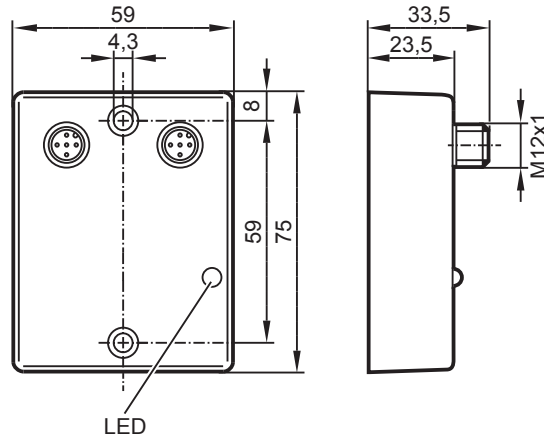


CR3130

CANwireless
mit integrierter Antenne
CAN-WLAN/Bluetooth-
Schnittstelle
WLAN-Frequenzbänder
2,4 GHz und 5 GHz
8...32 V DC

CE



E1

Technische Daten

Elektrische Daten

Betriebsspannung U_B

8...32 V DC

Stromaufnahme

≤ 60 mA (bei 24 V DC)

Status-LED

1 x 2-farbig (rot / grün)

CAN-Schnittstelle

Profil

CAN Interface 2.0 A/B, ISO 11898-2

Protokoll

CANopen, CAN Layer 2, J1939

CAN Empfangspuffer

2048 Nachrichten

CAN zu Wireless Puffergröße

2048 Nachrichten

WLAN

Frequenzband

2,4 / 5 GHz

Protokoll

IEEE 802.11 a/b/g/n, IEEE 802.11 d/e/i/h

Sicherheitsstandard

WPA2-PSK, WPA-PSK, WEP64, WEP128, LEAP, PEAP

Reichweite

≤ 75 m

Max. Ausgangsleistung

15 dBm (32 mW)

Funktionen

WLAN-Bridge (Infrastructure Modus)
WLAN-Interface (Infrastructure Modus oder Mini Access Point Modus)

Übertragungsgeschwindigkeit ¹⁾

1600 CAN-Nachrichten pro Sekunde

Durchschnittliche Latenzzeit ²⁾

≤ 20 ms (WLAN-Bridge)

Bluetooth

Standard

Bluetooth Classic (2.1 + EDR)

Profil

SPP (Serial Port Profile)

Reichweite

≤ 75 m

Max. Ausgangsleistung

14 dBm (25 mW)

Funktionen

Bluetooth-Bridge
Bluetooth-Interface

Übertragungsgeschwindigkeit ¹⁾

4000 CAN-Nachrichten pro Sekunde

Durchschnittliche Latenzzeit ²⁾

≤ 20 ms (Bluetooth-Bridge)

CR3130

Software

Gerätekonfiguration

Hinweis

Mechanische Daten

Umgebungstemperatur

Schutzart

Gehäusematerial

Gewicht

Prüfnormen und Bestimmungen

CE

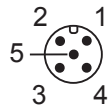
E1

FCC

Anschlussbelegung

CAN / Versorgung

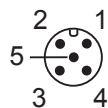
M12-Stecker, 5-polig



1	GND	Ground
2	U _B	Versorgung
3	nicht belegt	nicht belegt
4	CAN_H	CAN-Schnittstelle (High)
5	CAN_L	CAN-Schnittstelle (Low)

RS-232

M12-Stecker, 5-polig



1	GND	Ground
2	nicht belegt	nicht belegt
3	DSR	Data Set Ready (Boot)
4	RxD	RS-232 Receive (Eingang)
5	TxD	RS-232 Transmit (Ausgang)

Hinweise

¹⁾ bei CAN-Nachrichten und 1 MBit/s

²⁾ bei Übertragung einer einzelnen CAN-Nachricht

Technische Daten

ifm Maintenance Tool oder CODESYS mit EDS-Datei

weitere Informationen siehe www.ifm.com → CR3130

-30...75° C

IP 67

Polyamid (schwarz)

0,060 kg

EN 60950-1

EN 301489-1 V1.9.2

EN 301489-17 V2.2.1

EN 61000-6-2

EN 61000-6-3

EN 300328 V1.9.1

EN 301893 V1.8.1

UN/ECE-R10

FCC Part 15/47 CFR Conducted Limits

FCC Part 15/47 CFR Radiated Emission Limits

regarding Part 15 of the FCC rules (Class B digital devices)



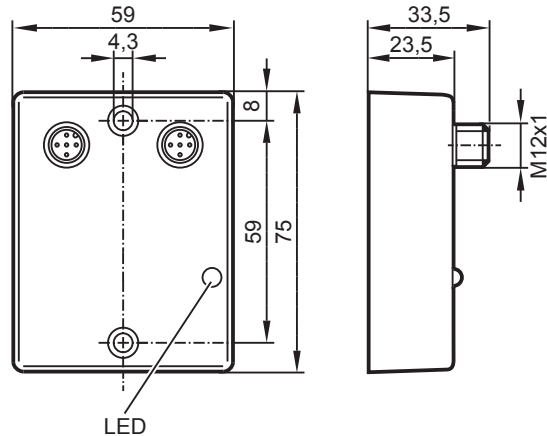
CR3130

CANwireless
with integrated antenna

CAN Wi-Fi/Bluetooth
interface

Wi-Fi frequency bands
2.4 GHz and 5 GHz

8...32 V DC



Technical data

Electrical data

Operating voltage U_B

8...32 V DC

Current consumption

≤ 60 mA (at 24 V DC)

Status LED

1 x 2 colours (red / green)

CAN interface

Profile

CAN interface 2.0 A/B, ISO 11898-2

Protocol

CANopen, CAN Layer 2, J1939

CAN receive buffer

2048 messages

CAN to Wi-Fi buffer size

2048 messages

Wi-Fi

Frequency band

2.4 / 5 GHz

Protocol

IEEE 802.11 a/b/g/n, IEEE 802.11 d/e/i/h

Safety standard

WPA2-PSK, WPA-PSK, WEP64, WEP128, LEAP, PEAP

Range

≤ 75 m

Max. output power

15 dBm (32 mW)

Functions

Wi-Fi bridge (infrastructure mode)
Wi-Fi interface (infrastructure mode or mini access point mode)

Transmission rate ¹⁾

1600 CAN messages per second

Average latency time ²⁾

≤ 20 ms (Wi-Fi bridge)

Bluetooth

Standard

Bluetooth Classic (2.1 + EDR)

Profile

SPP (Serial Port Profile)

Range

≤ 75 m

Max. output power

14 dBm (25 mW)

Functions

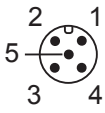
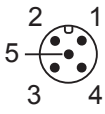
Bluetooth bridge
Bluetooth interface

Transmission rate ¹⁾

4000 CAN messages per second

Average latency time ²⁾

≤ 20 ms (Bluetooth bridge)

CR3130	Technical data																
Software																	
Device configuration	ifm maintenance tool or CODESYS with EDS file																
Remark	For more information see www.ifm.com → CR3130																
Mechanical data																	
Ambient temperature	-30...75 °C																
Protection rating	IP 67																
Housing material	polyamide (black)																
Weight	0.060 kg																
Test standards and regulations																	
CE	EN 60950-1 EN 301489-1 V1.9.2 EN 301489-17 V2.2.1 EN 61000-6-2 EN 61000-6-3 EN 300328 V1.9.1 EN 301893 V1.8.1																
E1	UN/ECE-R10																
FCC	FCC Part 15/47 CFR Conducted Limits FCC Part 15/47 CFR Radiated Emission Limits regarding Part 15 of the FCC rules (Class B digital devices)																
Wiring																	
CAN / supply M12 connector, 5 poles		<table border="1"> <tr><td>1</td><td>GND</td><td>Ground</td></tr> <tr><td>2</td><td>U_B</td><td>Supply</td></tr> <tr><td>3</td><td>Not connected</td><td>Not connected</td></tr> <tr><td>4</td><td>CAN_H</td><td>CAN interface (high)</td></tr> <tr><td>5</td><td>CAN_L</td><td>CAN interface (low)</td></tr> </table>	1	GND	Ground	2	U _B	Supply	3	Not connected	Not connected	4	CAN_H	CAN interface (high)	5	CAN_L	CAN interface (low)
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2	U _B	Supply															
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5	CAN_L	CAN interface (low)															
RS-232 M12 connector, 5 poles		<table border="1"> <tr><td>1</td><td>GND</td><td>Ground</td></tr> <tr><td>2</td><td>Not connected</td><td>Not connected</td></tr> <tr><td>3</td><td>DSR</td><td>Data Set Ready (boot)</td></tr> <tr><td>4</td><td>RxD</td><td>RS-232 receive (input)</td></tr> <tr><td>5</td><td>TxD</td><td>RS-232 transmit (output)</td></tr> </table>	1	GND	Ground	2	Not connected	Not connected	3	DSR	Data Set Ready (boot)	4	RxD	RS-232 receive (input)	5	TxD	RS-232 transmit (output)
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Remarks	¹⁾ for CAN messages and 1 MBit/s ²⁾ for transmission of a single CAN message																



CR3130

CANwireless
avec antenne integree

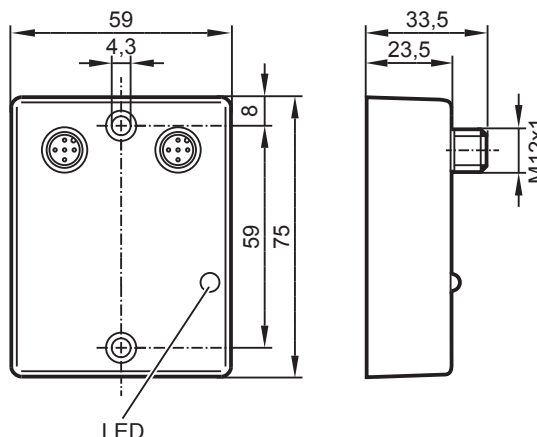
Interface
CAN Wi-Fi/Bluetooth

Bandes de frequences
Wi-Fi

2,4 GHz et 5 GHz

8...32 V DC

CE



E1

Donnees techniques

Donnees electriques

Tension d'alimentation UB

8...32 V DC

Consommation

≤ 60 mA (à 24 V DC)

LED d'etat

1 x 2 couleurs (rouge / verte)

Interface CAN

Profil

Interface CAN 2.0 A/B, ISO 11898-2

Protocole

CANopen, CAN Layer 2, J1939

Tampon de reception CAN

2048 messages

Tampon de reception CAN à
Wireless

2048 messages

Wi-Fi

Bande de frequences

2,4 / 5 GHz

Protocole

IEEE 802.11 a/b/g/n, IEEE 802.11 d/e/i/h

Standard de securite

WPA2-PSK, WPA-PSK, WEP64, WEP128, LEAP, PEAP

Portee

≤ 75 m

Puissance sortie max.

15 dBm (32 mW)

Fonctions

Pont Wi-Fi (mode "Infrastructure")
Interface Wi-Fi (mode "Infrastructure" ou mode "Mini Access Point")

Debit de transmission ¹⁾

1600 messages CAN par seconde

Temps de latence moyen ²⁾

≤ 20 ms (pont Wi-Fi)

Bluetooth

Standard

Bluetooth Classic (2.1 + EDR)

Profil

SPP (Serial Port Profile)

Portee

≤ 75 m

Puissance sortie max.

14 dBm (25 mW)

Fonctions

Pont Bluetooth
Interface Bluetooth

Debit de transmission ¹⁾

4000 messages CAN par seconde

Temps de latence moyen ²⁾

≤ 20 ms (pont Bluetooth)

CR3130

Logiciel

Configuration appareil

Remarque

Données mécaniques

Température ambiante

Indice de protection

Matière boîtier

Poids

Normes d'essai et réglementations

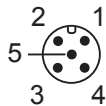
CE

E1

FCC

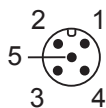
Schéma de branchement

CAN / alimentation
connecteur M12, 5 pôles



1	GND	terre
2	UB	alimentation
3	non utilisée	non utilisée
4	CAN_H	interface CAN (haut)
5	CAN_L	interface CAN (bas)

RS-232
connecteur M12, 5 pôles



1	GND	terre
2	non utilisée	non utilisée
3	DSR	Data Set Ready (démarrage)
4	RxD	RS-232 Receive (entrée)
5	TxD	RS-232 Transmit (sortie)

Remarques

¹⁾ pour messages CAN et 1 MBit/s

²⁾ pour la transmission d'une seule message CAN

Données techniques

ifm Maintenance Tool ou CODESYS avec fichier EDS

Plus d'informations sont disponibles sous www.ifm.com → CR3130

-30...75° C

IP 67

polyamide (noir)

0,060 kg

- EN 60950-1
- EN 301489-1 V1.9.2
- EN 301489-17 V2.2.1
- EN 61000-6-2
- EN 61000-6-3
- EN 300328 V1.9.1
- EN 301893 V1.8.1

UN/ECE-R10

FCC Part 15/47 CFR Conducted Limits
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regarding Part 15 of the FCC rules (Class B digital devices)