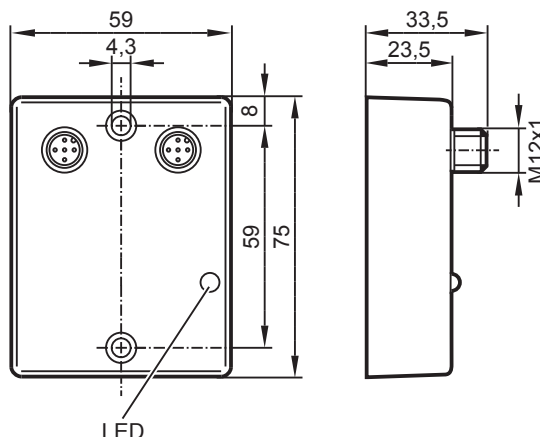


CR3130

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

Stromaufnahme

Status-LED

CAN-Schnittstelle

Profil

Protokoll

CAN Empfangspuffer

CAN zu Wireless Puffergröße

WLAN

Frequenzband

Protokoll

Sicherheitsstandard

Reichweite

Max. Ausgangsleistung

Funktionen

Übertragungsgeschwindigkeit ¹⁾

Durchschnittliche Latenzzeit ²⁾

Bluetooth

Standard

Profil

Reichweite

Max. Ausgangsleistung

Funktionen

Übertragungsgeschwindigkeit ¹⁾

Durchschnittliche Latenzzeit ²⁾

8...32 V DC

≤ 60 mA (bei 24 V DC)

1 x 2-farbig (rot / grün)

CAN Interface 2.0 A/B, ISO 11898-2

CANopen, CAN Layer 2, J1939

2048 Nachrichten

2048 Nachrichten

2,4 / 5 GHz

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

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

≤ 75 m

15 dBm (32 mW)

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

1600 CAN-Nachrichten pro Sekunde

≤ 20 ms (WLAN-Bridge)

Bluetooth Classic (2.1 + EDR)

SPP (Serial Port Profile)

≤ 75 m

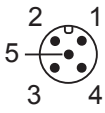
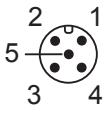
14 dBm (25 mW)

Bluetooth-Bridge
Bluetooth-Interface

4000 CAN-Nachrichten pro Sekunde

≤ 20 ms (Bluetooth-Bridge)



CR3130	Technische Daten																
Software																	
Gerätekonfiguration	ifm Maintenance Tool oder CODESYS mit EDS-Datei																
Hinweis	weitere Informationen siehe www.ifm.com → CR3130																
Mechanische Daten																	
Umgebungstemperatur	-30...75° C																
Schutzart	IP 67																
Gehäusematerial	Polyamid (schwarz)																
Gewicht	0,060 kg																
Prüfnormen und Bestimmungen																	
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)																
Anschlussbelegung																	
CAN / Versorgung M12-Stecker, 5-polig		<table border="1"> <tr><td>1</td><td>GND</td><td>Ground</td></tr> <tr><td>2</td><td>U_B</td><td>Versorgung</td></tr> <tr><td>3</td><td>nicht belegt</td><td>nicht belegt</td></tr> <tr><td>4</td><td>CAN_H</td><td>CAN-Schnittstelle (High)</td></tr> <tr><td>5</td><td>CAN_L</td><td>CAN-Schnittstelle (Low)</td></tr> </table>	1	GND	Ground	2	U _B	Versorgung	3	nicht belegt	nicht belegt	4	CAN_H	CAN-Schnittstelle (High)	5	CAN_L	CAN-Schnittstelle (Low)
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Hinweise	¹⁾ bei CAN-Nachrichten und 1 MBit/s ²⁾ bei Übertragung einer einzelnen CAN-Nachricht																



CR3130

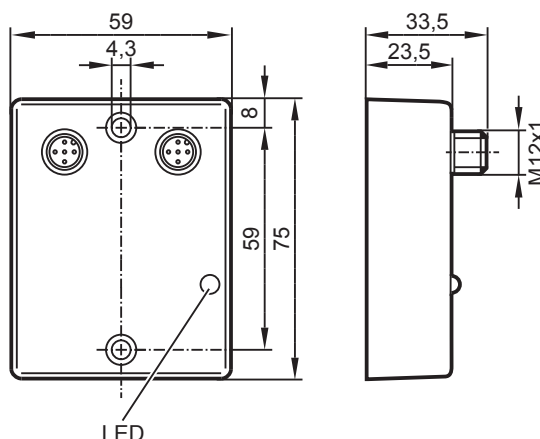
CANwireless
with integrated antenna

CAN Wi-Fi/Bluetooth
interface

Wi-Fi frequency bands
2.4 GHz and 5 GHz

8...32 V DC

CE



E1

Technical data

Electrical data

Operating voltage U_B

Current consumption

Status LED

CAN interface

Profile

Protocol

CAN receive buffer

CAN to Wi-Fi buffer size

Wi-Fi

Frequency band

Protocol

Safety standard

Range

Max. output power

Functions

Transmission rate ¹⁾

Average latency time ²⁾

Bluetooth

Standard

Profile

Range

Max. output power

Functions

Transmission rate ¹⁾

Average latency time ²⁾

8...32 V DC

≤ 60 mA (at 24 V DC)

1 x 2 colours (red / green)

CAN interface 2.0 A/B, ISO 11898-2

CANopen, CAN Layer 2, J1939

2048 messages

2048 messages

2.4 / 5 GHz

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

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

≤ 75 m

15 dBm (32 mW)

Wi-Fi bridge (infrastructure mode)

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

1600 CAN messages per second

≤ 20 ms (Wi-Fi bridge)

Bluetooth Classic (2.1 + EDR)

SPP (Serial Port Profile)

≤ 75 m

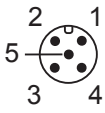
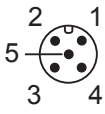
14 dBm (25 mW)

Bluetooth bridge
Bluetooth interface

4000 CAN messages per second

≤ 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> <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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RS-232 M12 connector, 5 poles		<table> <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

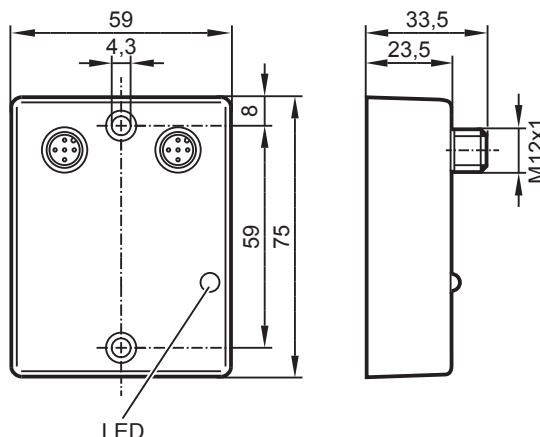
CANwireless
avec antenne intégrée

Interface
CAN Wi-Fi/Bluetooth

Bandes de fréquences
Wi-Fi

2,4 GHz et 5 GHz

8...32 V DC



Données techniques

Données électriques

Tension d'alimentation UB

Consommation

LED d'état

Interface CAN

Profil

Protocole

Tampon de réception CAN

Tampon de réception CAN à
Wireless

Wi-Fi

Bande de fréquences

Protocole

Standard de sécurité

Portée

Puissance sortie max.

Fonctions

Débit de transmission ¹⁾

Temps de latence moyen ²⁾

Bluetooth

Standard

Profil

Portée

Puissance sortie max.

Fonctions

Débit de transmission ¹⁾

Temps de latence moyen ²⁾

8...32 V DC

≤ 60 mA (à 24 V DC)

1 x 2 couleurs (rouge / verte)

Interface CAN 2.0 A/B, ISO 11898-2

CANopen, CAN Layer 2, J1939

2048 messages

2048 messages

2,4 / 5 GHz

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

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

≤ 75 m

15 dBm (32 mW)

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

1600 messages CAN par seconde

≤ 20 ms (pont Wi-Fi)

Bluetooth Classic (2.1 + EDR)

SPP (Serial Port Profile)

≤ 75 m

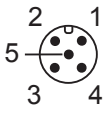
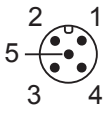
14 dBm (25 mW)

Pont Bluetooth
Interface Bluetooth

4000 messages CAN par seconde

≤ 20 ms (pont Bluetooth)



CR3130	Données techniques																
Logiciel																	
Configuration appareil	ifm Maintenance Tool ou CODESYS avec fichier EDS																
Remarque	Plus d'informations sont disponibles sous www.ifm.com → CR3130																
Données mécaniques																	
Température ambiante	-30...75° C																
Indice de protection	IP 67																
Matière boîtier	polyamide (noir)																
Poids	0,060 kg																
Normes d'essai et réglementations																	
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																
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Schéma de branchement																	
CAN / alimentation connecteur M12, 5 pôles		<table border="1"> <tr> <td>1</td><td>GND</td><td>terre</td></tr> <tr> <td>2</td><td>UB</td><td>alimentation</td></tr> <tr> <td>3</td><td>non utilisée</td><td>non utilisée</td></tr> <tr> <td>4</td><td>CAN_H</td><td>interface CAN (haut)</td></tr> <tr> <td>5</td><td>CAN_L</td><td>interface CAN (bas)</td></tr> </table>	1	GND	terre	2	UB	alimentation	3	non utilisée	non utilisée	4	CAN_H	interface CAN (haut)	5	CAN_L	interface CAN (bas)
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Remarques	¹⁾ pour messages CAN et 1 MBit/s ²⁾ pour la transmission d'une seule message CAN																