

CR2102

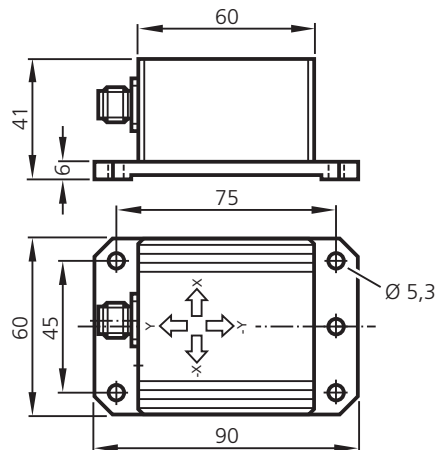
Inclination sensor
2 axes

CANopen interface

Analog outputs
4...20 mA

Operating voltage
10...32 V DC

Measuring range $\pm 45^\circ$



e1

Application

Housing

Mounting plate

Dimensions (w x h x d)

Mounting

Protection

Connection

Operating voltage

Power consumption

Operating temperature

Storage temperature

Measuring range (per axis)

Resolution

Accuracy

Temperature drift

Crosstilt

Analog outputs
Load

Interface

Baud rate

Communication profile

Node ID (default)

Status LED

Operating status (Status LED)

If both faults occur simultaneously,
the LED appears orange.

Wiring

According to CiA DR 303-1

2-axis position monitoring and zero levelling for mobile applications

aluminium, black anodised

aluminium, natural-coloured

90 x 60 x 41 mm

by means of M5 screws

IP 67

M12 plug for operating voltage, CAN bus and analog outputs
8 pins (type Lumberg)

10...32 V DC

≤ 1.9 W

-30...+80°C

-40...+85°C (not to be subjected to shock below -25°C)

$\pm 45^\circ$

parameterisable 0.1° / 0.5° / 1.0° (when data is evaluated via CAN bus)

0,5°

0.2% / K

3%

2 current interfaces 4...20 mA for X and Y axes
250 Ω (10 V supply)
500 Ω (24 V supply)

CAN interface 2.0 B, ISO 11898

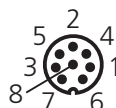
20 Kbits/s...1 Mbits/s (125 Kbits/s default)

CANopen, CiA DS 301 version 4.01, profile WDP 410

hex 20 (= 32)

two-colour LED (red/green)

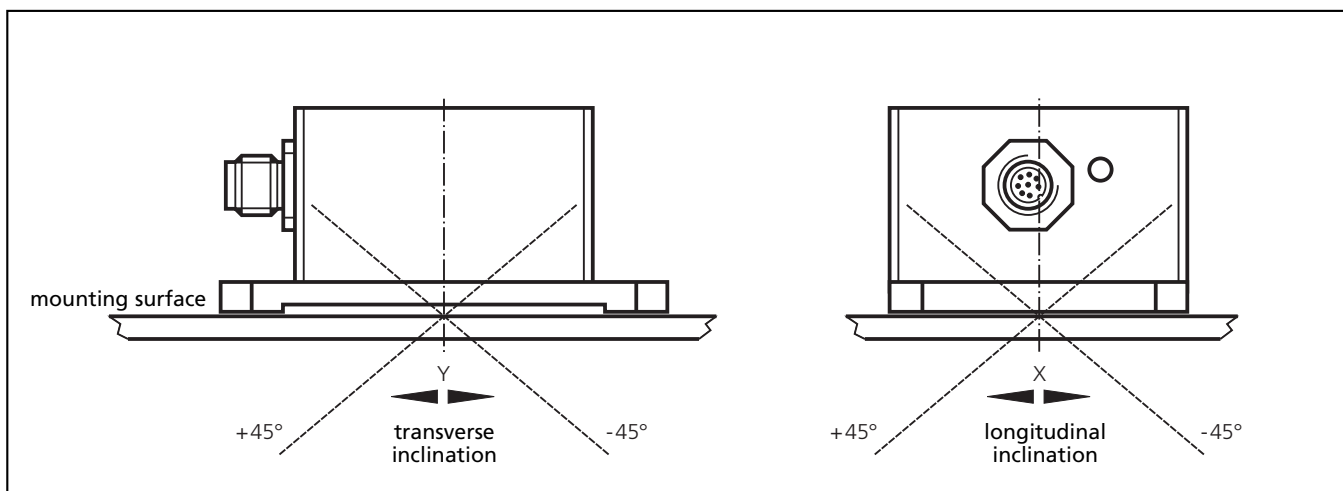
LED colour	Flashing frequency	Description
green	constantly off constantly on 2.0 Hz	no operating voltage CANopen: PREOPERATIONAL / PREPARED CANopen: OPERATIONAL
red	constantly on	communication fault



Description	Pin	Potential
Operating voltage	1	10...32 V DC
	2	GND
CAN interface	3	CAN_H
	4	CAN_L
	5	CAN_GND
Analog outputs (X-/Y-axis)	6	I_OUT X
	7	I_OUT Y
	8	GND_A

CR2102

Fitting position



Immunity
to conducted interference

Immunity
to interfering fields

Interference emission

Test standards and regulations

to ISO 7637-2, pulses 3a, 3b, 4, severity level 4, function state A
to ISO 7637-2, pulse 2, severity level 1, function state A
to ISO 7637-2, pulse 1, 5, severity level 1, function state A

to directive 95/54/EC at 30 V/m (e1 type approval)
and EN 500 82-2 (CE)

to directive 95/54/EC (e1 type approval)
and EN 500 81-1 (CE)