



MANUFACTURER OF SAFETY MATERIAL
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REACH CONFORMITY



EC DECLARATION OF CONFORMITY

This document is the conformity declaration concerning the safety switches by RFID technology in accordance with standard Road Vehicles and Safety Machine

RFID SAFETY SWITCHES

Description of product : Coded sensor with process RFID for access control

Range	Standards	Approvals	Safety parameters
XORF-SA	ISO 7637-2:2011	E2	Pulse 1, 2a, 2b, 3a, 3b, 4
	ISO 13849-1	CE	up to PL=e MTTFd=40 y TM=20 y Periodical verification 1/y

Road vehicles approval number : (E2)10R-04 14053

Quality Management System : AB CERTIFICATION A879

Name of Technical authority : Christophe PAYS from COMITRONIC-BTI

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Noisy le Grand, 1 sep. 2014
President

Data sheet for XORF-SA-MKT sensor for wheeled vehicles, on-board equipment

Have you just purchased a BTI product? Thank you for your trust.

To guarantee reliable performance, this new technology product has been painstakingly developed and manufactured.

1. Scope / performance

Vehicles with starter / alternator / battery
Controlling the position of guard doors
of garbage trucks
Controlling the safety position of stepping boards
and others
Controlling discriminatory access
Machine Safety and wheeled vehicles (E2)
Self-learning RFID encoding key
Coding capacity: 100 per week
Client unique code: on request
Diagnostic output for controllers
Backlight LED
High alignment tolerance: ~20 mm
Compatible metallic environment
Encapsulated output cord 50cm PUR M12 8p
Waterproofness IP 67
PA6 housing is resistant to washing with detergent
Operating temperature -30°C ~ +50°C
Protecting outputs against short circuits
Diagnostic coverage (DC) 99% on AWAX

2. Installation instructions

The receiver (with cable) is mounted on the fixed part
The transmitter (without a cable) is mounted on the mobile part
Bent link attachments for mounting at 0 or 90 °
Stainless steel ZU4 washers provided
Fastening with two M4 screws
OBH4 anti-tamper screws are optional
Connection cable L ~ 50cm and $\Phi = 6$ mm

3. Recommendations

Protect the cable against external damage using for example a mechanical shielding. For compliance with the Machinery Directive 2006/42/EC, this equipment must be connected to a safety controller.

4. Functioning

Carry out pairing: at the first installation, the transmitter transfers its code to the receiver which memorizes it definitively.

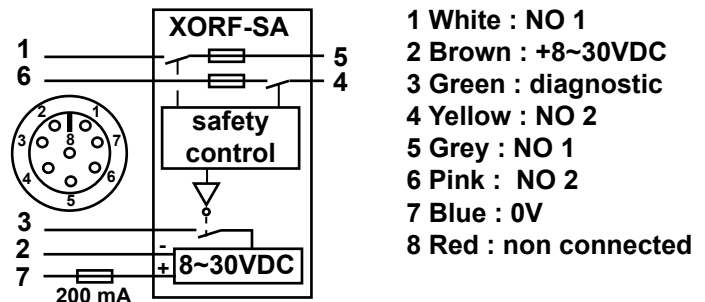
Approach (version 24V)			
Range	Diagnosis	Output 1	Output 2
> 26 mm	Power supply	open	open
26 mm	pulse ~25Hz	open	open
23 mm	open	closed	closed
0-23 mm	open	closed	closed

Distance (version 24V)			
Portée	Diagnosis	Output 1	Output 2
0-24 mm	open	closed	closed
25,5 mm	Power supply	closed	closed
25.5-26 mm	pulse ~25Hz	open	open
> 26 mm	Power supply	open	open

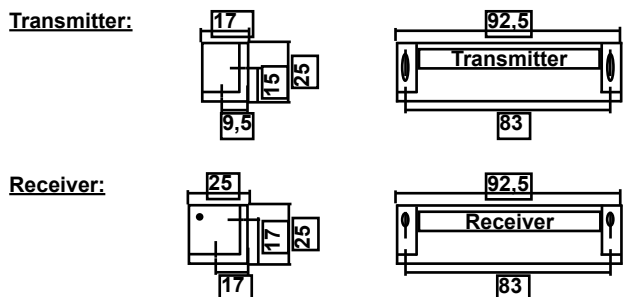
5. Technical specifications

Power supply	8~30 VDC
Consumption	12V : ~70mA and 24V : ~81mA
Safety contact	2 contacts NO : 50mA-1 Ω et 1 PNP/50mA-1 Ω
Diagnostic contact	1 contact NO : 50mA-1 Ω
Contact protection	Pulse 150 mA / continuous: 50 mA automatic reset
Response Time	Closing safety contacts: 900 ms
Risk period	Opening safety contacts: 130 ms
Display	Blinking LED: unstable position Fixed LED: active position LED Switched off : out of range
Range / offset at 25 ° C	Range: ~ 16-20 mm offset: +/- 14 mm
Temperature	Functioning: -30 ° C ~ + 50 ° C storage: -40 ° C ~ +85 ° C
Protection index	IP 67
Curvature of cable	Radius 50 mm
Size L x W x H	Transmitter: 92.5 x 17 x 25 mm Receiver: 92.5 x 25 x 25 mm
Weight	~170 gr.

6. Wiring



7. Dimensions (mm)



8. Note

The surface of the housing may be hot in certain situations this is normal and without sacrificing performance. This allows, among other things a good start in very cold environments (-30 °C to 0 °C). This does not effect in a high temperature environment (25 °C to 50 °C).