

SIGNAL *optoelectronic safety edge*



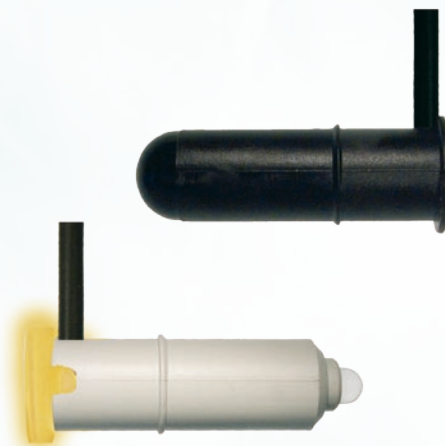
WITT
Sensoric

Optoelectronic systems

Operating gates safely

The newly developed optical safety edge SIGNAL sets new benchmarks in all technical parameters:

- ◇ Integrated diagnostic system with a visual display
- ◇ LED indicator for switching state
- ◇ Larger gate-width possible
- ◇ Less sensitive to wind load and bending
- ◇ High electromagnetic interference immunity
- ◇ Resistant against voltage reversal and short-circuits
- ◇ Regulated transmit power
- ◇ Compatible with all common door controls



Functional Description

Diagnostic system with a visual display:

The safety edge SIGNAL is testing the rubber profile for its optical quality after engaging. The optical quality results from the rubber mixture, door width, bending, soiling etc.. The optical values of the rubber profile are indicated with a flash code of 1...16 impulses. One impulse is the best value, 16 impulses the worst.

LED indicator for switching state:

The activated safety edge is indicated with the constant illuminated yellow LED.

Larger gate width possible:

The SIGNAL was developed using a new optical system, thereby allowing considerable larger gate widths.

Less sensitive to wind load and bending:

The SIGNAL shows an improved switching behaviour in difficult conditions due to the optical characteristics and the new regulation method.

High electromagnetic interference immunity:

The SIGNAL has a very high electromagnetic interference immunity. In this way the requirements can be fulfilled, despite the use of frequency inverter controls and static discharges by PVC curtains.

Resistant against voltage reversal and short-circuits:

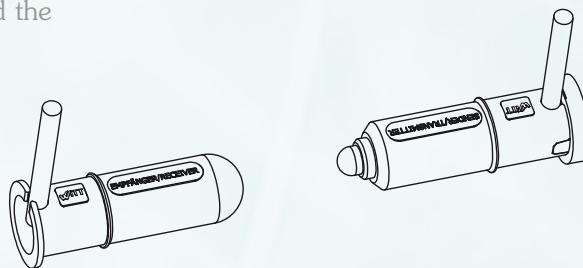
The SIGNAL is immune to wrong wiring. It is practically indestructible at the power supply.

Regulated transmit power:

The improved transmit power regulation results in approximately equal closing forces at different gate-widths.

Compatible to all common safety edge systems:

The SIGNAL is compatible with all common door controls and safety processing units and can be connected without problems.



Technical Informations

The **SIGNAL** safety edge has a new diagnostic system innovatively integrated. To realise this, the transmitter has got an all around visible yellow ring LED. When switched on, the optical values of the rubber profile are measured and indicated with a flash code with 1...16 impulses.

1 impulse is the best value and 16 impulses indicates, that the limit of the optoelectronic system is reached. After displaying the diagnostic value the **SIGNAL** changes to the normal operation mode. Now the triggering of the safety edge is displayed by the LED.

Diagnostics Interpretation

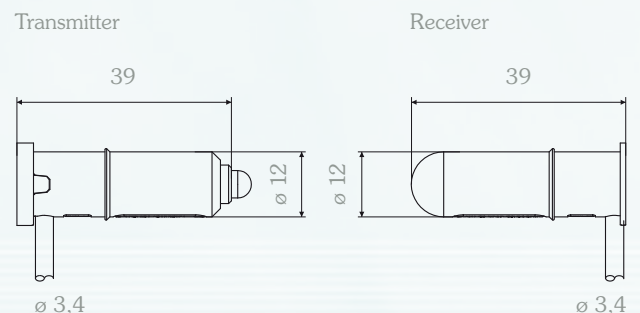
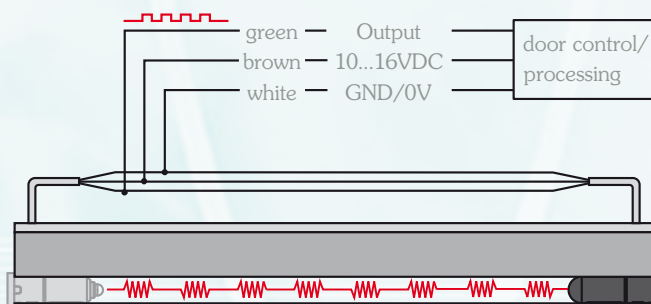
Always after switching on the power:

- 1...6 flashes = optimal condition
- 7...14 flashes = good condition
- 15...16 flashes = operational limit reached

Technical Data

Range	1...12m	Housing material	transmitter, plastic PA6 receiver, Lexan, IR transparent
Operating voltage	10...16VDC,	Wire	3x0.14mm ² , ø 3.4mm, PUR, halogen free, acid- and oil-resistant
Current consumption	approx. 40mA	Degree of protection	IP67 according to EN60529, filled with 2K-epoxy resin
Type of light	infrared, 880nm pulsed	Operating temperature	-25...+75°C
Diagnostics display	yellow ring-shaped LED for rubber profile diagnostics, flashes with 1...16 impulses	Storage temperature	-25...+75°C
Operation display	yellow ring-shaped LED is on when safety edge is triggered	Weight	approx. 21g with 1m cable approx. 155g with 10.5m cable
Output	transistor-output, max. load 20mA, short-circuit proofed	Size	ø12x39mm
Output signal	typ. 900Hz low-level 0...1V high-level 3...5V		

Terminal Assignments





EG-Baumusterbescheinigung

EC type-examination certificate

Registrier-Nr.

Registration No.

44 205 07 554045

Zeichen des Auftraggebers
Customer's reference

Auftragsdatum
Date of order

Aktenzeichen
File reference

Prüfbericht Nr.
Test report no.

02.08.2007

8000554045

07205554045

**Name und Anschrift
des Auftraggebers**

**Witt Sensoric GmbH
Gradestraße 48-50
D-12347 Berlin**

Customer's name
and address

Erfüllt mit dem u. g. Produkt die Anforderungen des Anhangs I der Maschinenrichtlinie 98/37/EG als eine Grundlage für die EG -Konformitätserklärung bzw. die Herstellererklärung.
The product described below meets the requirements of annex I of the directive 98/37/EC as a basis for the EC - declaration of conformity or the manufacturer's declaration of incorporation.

Geprüft nach

Maschinenrichtlinie 98/37/EG

Tested in
accordance with

**EN 12978:2003 Schutzeinrichtungen für kraftbetätigte Türen und Tore
Anforderungen und Prüfverfahren**

**Beschreibung des
Produktes**

**Schaltleiste mit Sicherheitsauswerter zur Verwendung an Toren im
Innen- und Außenbereich
Schließgeschwindigkeit bis 200 mm/s
Nachlaufweg: max. 30 mm**

Description of
product

Typenbezeichnung

**Sicherheitsauswerter AOS 3000 / AOS 5000
mit optoelektronischer Schließkantensicherung SIGNAL
in Gummiprofil GP15/25x75 + Adapter 15/12**

Type Description

Bemerkung

Bitte beachten Sie auch die umseitigen Hinweise
Please also pay attention to the information stated overleaf

Remark

TÜV NORD CERT GmbH
Zertifizierungsstelle für Produktsicherheit
Certification body for product safety
Benannte Stelle 0044 / Notified Body 0044

Gültig bis / Valid to: 12.2012

Hannover, 05.12.2007

Langemarckstr. 20 • 45141 Essen • Fon +49 (0)201 825 5120 • Fax +49 (0)201 825 3209 • Email: machinery@tuv-nord.de

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- Manufacture
- Sales

We make only optoelectronics – and we do it right



Witt Sensoric GmbH
Gradestraße 48-50 · 12347 Berlin · Germany
Tel.: +49 (0) 30 / 75 44 94-0
Fax: +49 (0) 30 / 75 44 94-11
info@witt-sensoric.de
www.witt-sensoric.de