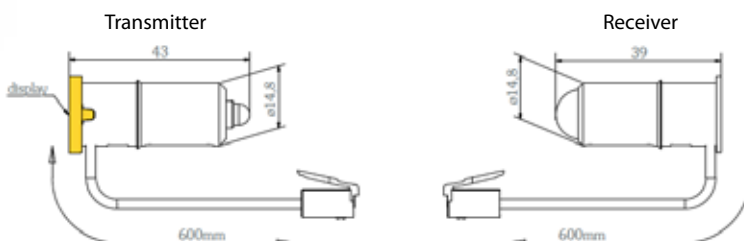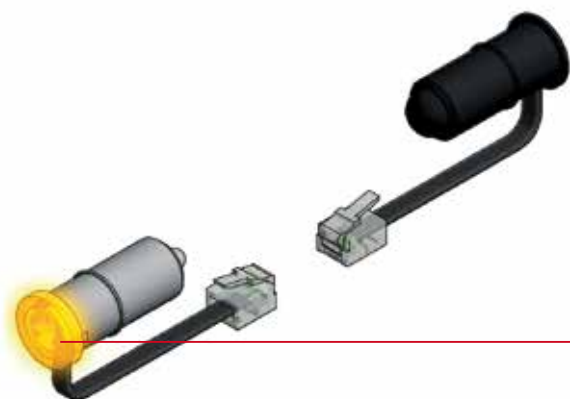# WS-SIGNAL 15

NEW

WS-SIGNAL 15 optical probe profile device is equipped with an integrated diagnostic system that provides an output indicating the quality of the rubber profile. This system is integrated into the transmitter, so no other measuring instruments are required. All visible LED indicators show the switching states.
This enhances operational safety and is also useful for maintenance operations. The precise self-calibration of the sensors ensures consistent switching behavior across all door widths.

- **RJ connector compatible with Hörmann control panels**
- **Diagnostic system with integrated LEDs**
- **Switching status indicators**
- **Insensitive to wind loads and bending**
- **High immunity to electromagnetic interference (EMC)**
- **Protection against polarity reversal and short circuits**
- **Regulated transmitted power**

Transmitter

Receiver

Technical specifications

Optical range	From 1 to 12 metres, depending on the quality of the rubber profile
Operating voltage	From 10 to 16 VDC, with reverse polarity protection
Electricity consumption	40 mA (±2 %)
Light type	Pulsed infrared, 880 nm
Diagnostic display	Yellow LED ring for rubber profile diagnostics, flashes from 1 to 16 pulses
Operating display	Yellow LED ring lights up when the safeguard edge is activated
Signal output	transistor, max. load 20 mA, protected against short circuits
Output level	rectangular signal – low: 0 to 1 V / high: 3 to 5 V
Signal frequency	usually 900 Hz
Materials supplied	Transmitter: ABS plastic Receiver: Lexan, IR transparent
Connection cable	PVC, 600 mm with modular connector
Protection degree	IP67 according to EN60529, encapsulated with 2K epoxy resin
Operating temperature	-25°C,+60°C
Storage temperature	-25°C,+75°C
Weight	of receiver: 21gr
	of transmitter: 20gr

For installation on doors with a modular connector system. WS-SIGNAL optical safety device is an innovative, high-quality product equipped with a modular connector compatible with the Hörmann SKS system.

Diagnostics

After the electronics are powered up, the system evaluates the quality of the rubber profile. The result is displayed as a series of flashes from the LED indicator light, visible on the outside of the profile:

- 01 to 06 flashes: optimal conditions

- 07 to 14 flashes: good conditions

- 15 to 16 flashes: the safety profile is still functional, but operational safety cannot be guaranteed in the long term. It is recommended to check the rubber profile for possible damage or impurities.

To restart the diagnostics, simply disconnect and then reconnect the power supply.
After the diagnostic indication, the device automatically switches to standard mode, and only the yellow LED lights up when the light beam is interrupted.

APE-589/318968

WS-SIGNAL 15
Optical sensors for sensitive security edges

Box includes:
- nr.1 transmitter unit
- nr.1 receiver unit