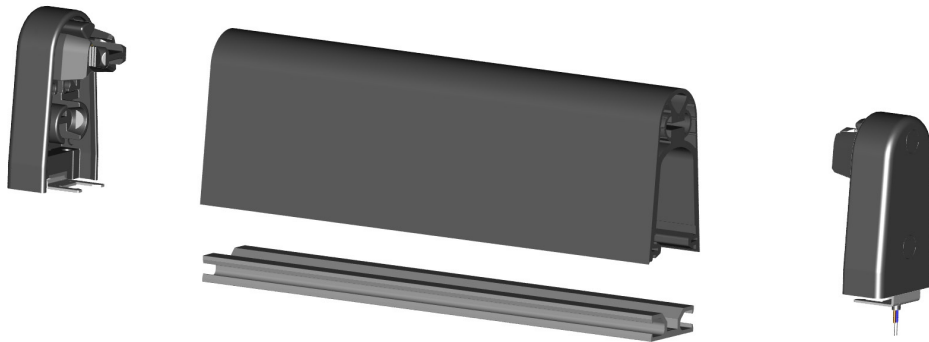




Guide to Plug 'N' Sense Systems



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Introduction to Plug 'N' Sense

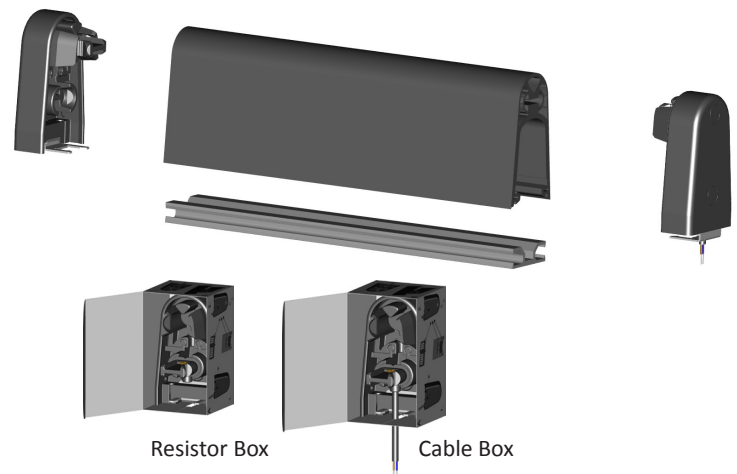
The NEW Plug'N'Sense system developed by ASO Safety Solutions in the next generation in resistive safety edge design, it provides the gate/door installer with a fully compliant & easy to assemble product that can be produced on-site in the matter of minutes.

With Health & safety quickly becoming one of the primary design concerns for both new installations and existing site maintenance visits the Plug'N'Sense system provides a flexible & robust solution meeting the requirements or current and future legislation concerning gate & door systems. Plug & Sense has been born from extensive development, testing and listening to feedback of our customers which has helped produce the most advanced system of its kind currently available on the market.

Safety Edge System Explained

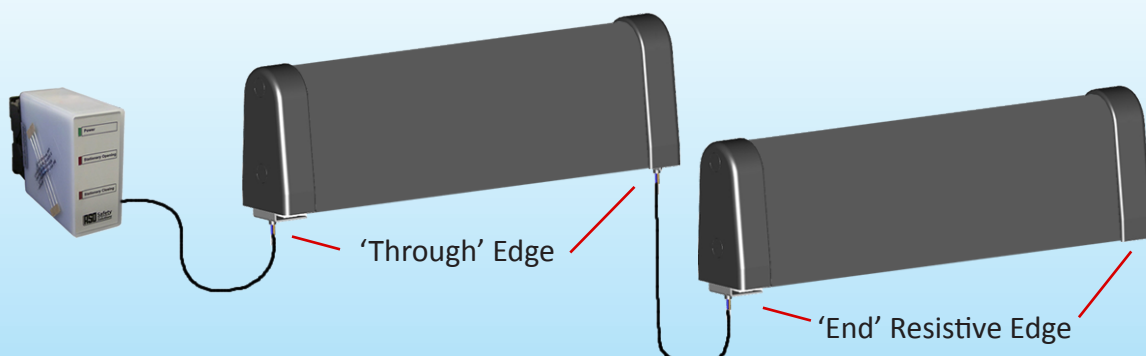
Building on the already highly successful design of the GE F series safety edge profile the new Plug'N'Sense components bring the ease & convenience of self-assembly safety edges to a new level. The ingenious, patented design of the GE F series edge profile combines a resilient outer edge rubber with a fully integrated switching chamber design extruded in to a one piece construction. The NEW Plug'N'Sense system components are provided in 'ready to fit' boxes, packaging includes simple to follow instructions enabling the quick & easy assembly of an IP65 rated safety edge. There are two types of 'ready to fit' boxes for the Plug'N'Sense system, the first "Resistor box" contains a rubber endcap, plastic holding clip & 8.2KΩ resistor plug with pre-

applied flexible sealant. The second "Cable box" contains again a rubber endcap, plastic holding clip & in addition a cable plug with pre-applied flexible sealant.



Safety edge production & system design

When producing safety edges for use with a gate or door installation the installer must take in to account the edge fitting locations and wiring routes of the gate or door in question, then assemble the appropriate types of edges to meet the safety requirements of the installation. There are two types of resistive safety edges, an "End" edge is assembled using 1 x "Resistor box" & 1 x "Cable box" and connects directly to an electronic controller where no other safety edges are used in the circuit. A "Through" edge is assembled using 2 x "Cable boxes" and typically is used to connect from an electronic controller to multiple through edges in series and on to an "end" edge.



*Up to 100m of cabling or edges can be connected before resistance

Safety edge evolution/Features & benefits

ASO have produced safety edge systems for over 20 years and have innovated and developed products and technology to help drive forward safety worldwide. Take a look at the features and benefits of the product evolution below which gives clear advantages to the installer who requires a high quality, reliable and easy to assemble product.

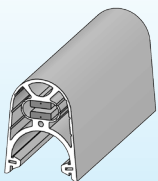


	GP-Series	GE-Series	GEF-Series
Integrated Switching Chamber?	X	✓	✓
Available for self assembly?	X	✓	✓
Suitable for on site assembly?	X	X	✓
Can be made to exact length	X	✓	✓
Plug 'N' Sense compatible?	X	***	✓
Glue set required for assembly?	✓	✓	X
Visible aluminium when fitted?	✓	✓	X
Covers aluminium when fitted?	X	X	✓
45 Degree mounting option?	X	X	✓
Resistant EPDM material?	✓	✓	✓
Fully monitored resistive edge?	✓	✓	✓
IP65 Rated weather resistance?	X	✓	✓
Endcap with water drainage?	X	✓	✓
Certified to EN1760-2 & EN12978?	✓	✓	✓

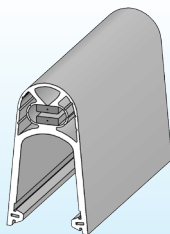
*** Some GE-Series profiles may be produced with Plug'N'sense in the near future!

Safety Edge Profiles Options

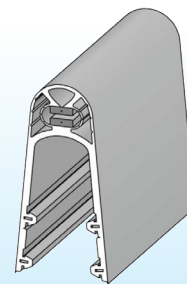
The Plug'N'Sense safety edge assembly system is available in the following sizes of GE F rubber profiles. Each profile is available in 25M rolls for easy delivery and storage enabling installers to take full advantage of a self-assembly system without the need to wait for pre-made edges on order.



GE F45 SK



GE F65 SK



GE F85 SK

Low Profile Clip Foot 45mm	Large Profile Clip Foot 65mm	Large Profile Clip Foot 85mm
W: 34mm H: 45mm	W: 34mm H: 65mm	W: 40mm H: 85mm
Material: EPDM	Material: EPDM	Material: EPDM
Aluminium Backing Hidden	Aluminium Backing Hidden	Aluminium Backing Hidden
Pre-Assembled/Self Assembly (25m roll)	Pre-Assembled/Self Assembly (25m roll)	Pre-Assembled/Self Assembly (25m roll)
*Appropriate for Swing & Sliding Gates	*Appropriate for Sliding Gates	*Appropriate for Sliding Gates

Quick Step by Step Assembly in Minutes!



Components required in one box



Use Endcap to push in resistor/cable



Snap on Endcap into profile

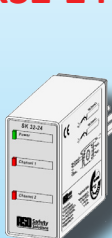


Fully assembled IP65 Safety Edge

ASO Swing & Sliding Gate Transmission Systems

With the growing need for safety products integration, manufacturers of automation and control systems for gates & doors have recognised that the 8.2K Ω resistive edge system has become an integral part of many installations and are producing a growing number of products with on-board facility for connection of 8.2k Ω edges. However not all products currently come with this integrated feature and therefore many installations will require an additional "transmission" system to interface between the 8.2k Ω edges and the automation control board. ASO produce a range of high quality EN tested and approved interfaces suitable for both sliding and swing gate applications as described below:-

SK32-24



- Hard wired relay controller for swing gates
- 2 channel inputs for 8.2K resistive edges
- 2 relay outputs for connection to control system
- 24V AC/DC input voltage
- CAT3 BS-EN12978, BS-EN954-1 & BS-EN13849-1 Certified

INDUS



- Complete Inductive transmission system for sliding gates
- Full hard wired system (no need for batteries)
- Control of both leading edge & stationary edges in 1 unit
- 4 Channel relay controller included (CAT3 BS-EN12978, BS-EN954-1 & BS-EN13849-1 Certified)
- For gates up to 20M + in length