

ExpertLine

Modular pressure-sensitive edge system for gate applications



Highly sensitive, economical, appealing

- High sensitivity and quick response time
- Fast assembly and easy installation
- Attractive appearance for seamless integration into gate/door design

ExpertLine

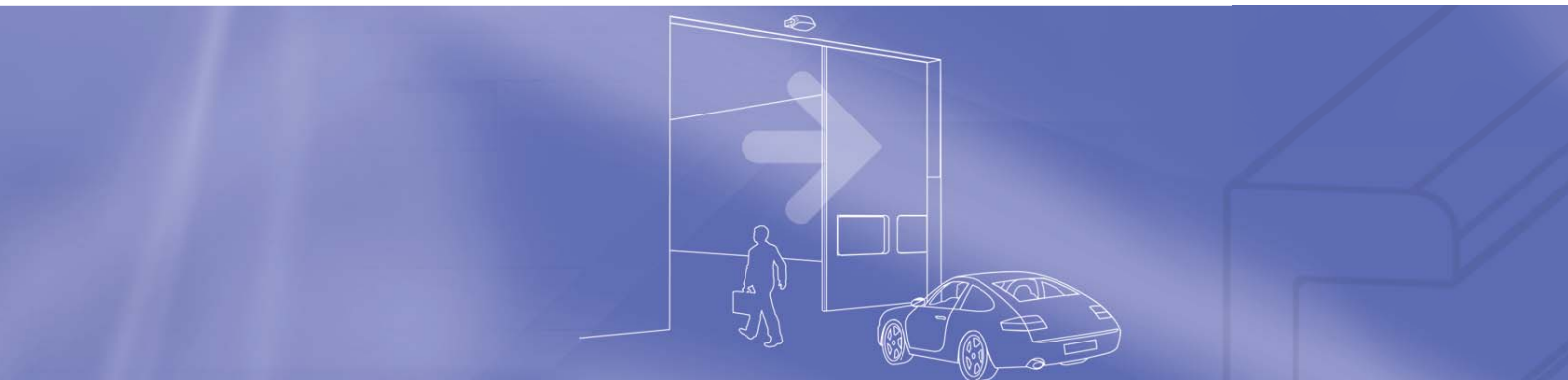
Safety edges with integrated switching contact

Safety edges for experts, by experts

Safety edges on automatic gates and doors prevent people from becoming injured and vehicles from sustaining damage. They need to spring into action the instant they are required, deforming until the gate drive is able to stop the dangerous movement. With this in mind, ExpertLine products deliver quick response times and are designed for maximum overtravel and flexible plasticity. Not only does it meet normative requirements, but ExpertLine also boasts a fully concealed mounting profile that enables it to blend discreetly into ambitious gate designs. The material they are made from, EPDM, is highly durable and maintains its mechanical and colour-fast properties over many years.

Pre-assembled, as an edge kit, or for self-assembly

ExpertLine pressure-sensitive edges are tailor-made for your requirements: they can be either preassembled as products cut to length, supplied in kits at a standard length of 2 m, or provided as a modular system for simple self-assembly.



Benefits

Highly sensitive

Thanks to the innovative profile cross-section and short contact actuating, ExpertLine pressure-sensitive edges respond even at low actuating forces. ExpertLine profiles possess large effective activation areas and angles – essential for devices such as folding gates.

Economical

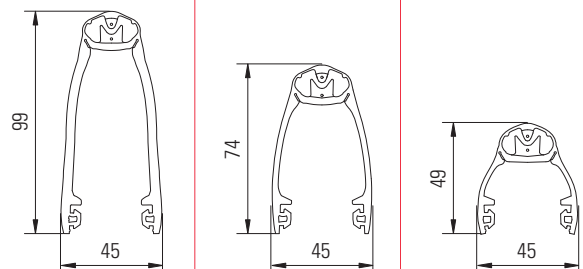
The plug-in contact end pieces allow ExpertLine safety edges to be assembled in a matter of minutes. The trigger-safe screw-fit plug connections and plug-on profile end caps also ensure very short assembly times on the gate or door – even while servicing is being performed.

Appealing

The extended overtravel makes it possible to choose the smallest available profile height for the application. ExpertLine profiles cover the aluminium profile fully and can be integrated discreetly into ambitious gate designs.

ExpertLine profile types

Dimensions

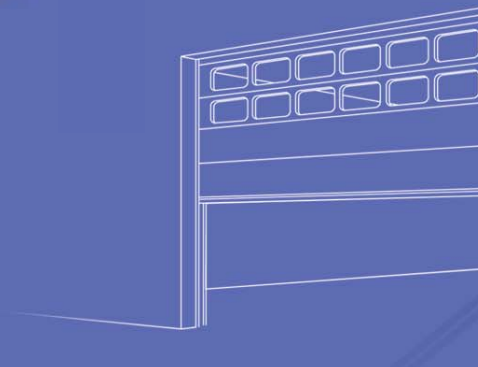
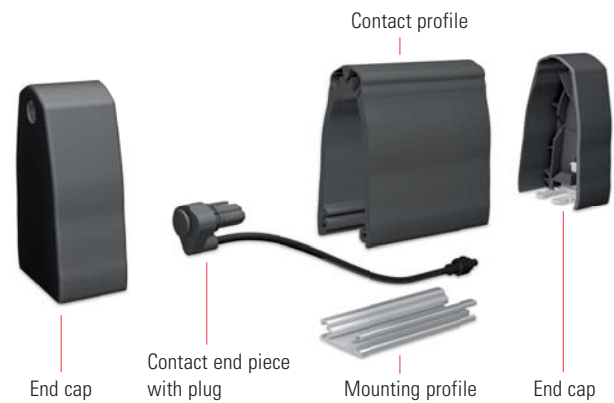


Contact profile	EP45x99A1	EP45x74A1	EP45x49A1
Article no.	389087	389109	389110
Weight	1.28 kg/m	0.89 kg/m	0.6 kg/m ²⁾
Mounting profile	AP-G1	AP-G1	AP-G1
Safety edge	EL45x99A1x	EL45x74A1x	EL45x49A1x
Actuating force ¹⁾ (200 mm/s)	< 40 N	< 45 N	< 45 N ²⁾
Pre-travel ¹⁾ (200 mm/s)	< 3 mm	< 3 mm	< 3 mm ²⁾
Overtravel ¹⁾ (400 N, 10 mm/s)	> 72 mm	> 46 mm	> 22 mm ²⁾

¹⁾ acc. to EN ISO 13856-2, temp. 23°C, test object ø 80 mm, measuring point C3 ²⁾ provisionally



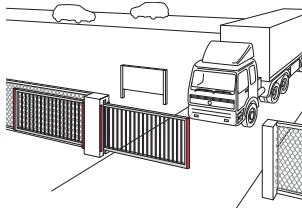
System overview



Applications

Situation

Sliding gate at site entrance

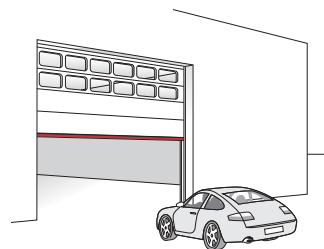


Solution

In cases where sliding gates are being used at site entrances, there is the need to safeguard not only the primary closing edge, but also multiple secondary closing edges. This is where ExpertLine's fast, largely tool-free assembly concept and its plug connector-based wiring technique really come into their own, as they make it possible to cut installation times significantly.

Situation

Vertical door

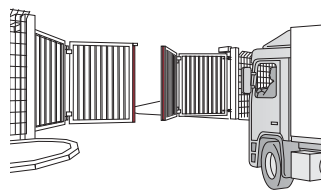


Solution

Industrial doors are operated at high speeds, primarily because this ensures that they are using energy efficiently. Thanks to their highly sensitive nature, ExpertLine pressure-sensitive edges provide reliable protection for the primary closing edge. The long overtravel allows the use of smaller profile heights. What's more, ExpertLine also meets the requirements of IP67 and its EPDM construction makes it extremely robust.

Situation

Bi-folding gate

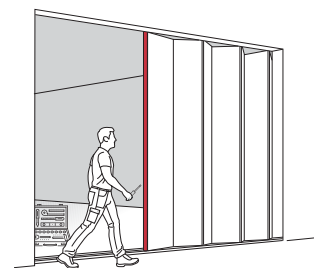


Solution

Leaves of bi-folding gates do not move in a straight line. They can turn up to 90 degrees along their longitudinal axis while a closing movement is taking place, and this inevitably leads to lateral activation of the safety edges. ExpertLine is ideally placed to deal with this thanks to its large effective activation areas and angles.

Situation

Servicing



Solution

When servicing is being carried out, ExpertLine offers considerable advantages during the process of replacing defective cables and safety edges that vehicles have run into and damaged. ExpertLine's plug-in cable connections enable quick installation in just a few simple steps.

Technical data

Contact profile material	EPDM, non-conductive, black
Hardness	Approx. 65 Shore A
Switching contact material	EPDM, conductive
Contact resistance	Typ. < 200 ohm, max. < 500 ohm
Resistance per unit length	< 2 ohm/m
Operating temperature range	-20°C to +60°C
Max. voltage	48 V ACDC
Load capacity (min. / max.)	0.1 mA / 100 mA
Protection class of assembled edge	IP67
Connection	2-pin cable
Plug connections	Coded, with screw locking
Resistor plug	8.2 kOhm (0.6 W)
Storage temperature for components	Permanent 0°C to 40°C recommended, short-term -30°C to 60°C possible
Product standards	EN 12978 and EN 13856-2 (type approval)
RoHS	Fulfilled

Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special properties of the products. This does not apply to special product properties confirmed by us in writing or individually. Subject to technical alterations.

ExpertSystem

Closing edge protection solution for sliding gates and folding doors

COMING SOON



- Highly sensitive ExpertLine safety edges
- Integrated radio transmission system
- Either prefabricated or self-assembly in just a few simple steps

Tailor-made ExpertLine

ExpertLine safety edges are available as an assembled complete solution that is always sure to be a perfect fit. Let us know your requirements and we will configure all of the necessary pressure-sensitive edges complete with the required connecting cables and switching devices to suit your specific needs.

ExpertLine kits

ExpertLine safety edges are available in defined lengths as self-assembly kits. The profiles simply have to be shortened to the length required at the gate or door. The new safety edge can be installed in a matter of minutes.








Article no.	Name	Description
391488	EL45x99A1/KT/2000/8k/5	For safety edges up to 2 m in length W 45 mm, H 99 mm
391487	EL45x74A1/KT/2000/8k/5	For safety edges up to 2 m in length W 45 mm, H 74 mm
391468	EL45x49A1/KT/2000/8k/5	For safety edges up to 2 m in length W 45 mm, H 49 mm

Kits include: 1x contact profile, 1x mounting profile, 2x contact end pieces, 2x end caps, 1x resistor plug 8.2 kOhm and 1x 5 m connection cable.

BBC Bircher Smart Access

Wiesengasse 20
8222 Beringen
Switzerland
Tel. +41 52 687 11 11
info@bircher.com
www.bircher.com

System components

Article no.	Description	
389087	EP45x99A1 contact profile , W 45 mm, H 99 mm (25 m in box measuring 1.16 x 1.16 x 0.2 m)	
389109	EP45x74A1 contact profile , W 45 mm, H 74 mm (25 m in box measuring 1.16 x 1.16 x 0.2 m)	
389110	EP45x49A1 contact profile , W 45 mm, H 49 mm (25 m in box measuring 1.16 x 1.16 x 0.2 m)	
209596	AP-G1 mounting profile, aluminium	
389111	XL-CEP contact end piece with cable and connecting plug (f), (set of 2)	
389114	XL-RP8 resistor plug 8.2 kOhm with connecting plug (m)	
389115	XL-C99 end cap for EP45x99A1 (set of 2)	
389117	XL-C74 end cap for EP45x74A1 (set of 2)	
389118	XL-C49 end cap for EP45x49A1 (set of 2)	
	XL-CCx connection cable one connecting plug (m), one open cable end	
389119	XL-CC1, length 1 m	
389120	XL-CC2, length 2 m	
389121	XL-CC5, length 5 m	
389122	XL-CC10, length 10 m	
389123	XL-CC20, length 20 m	
	XL-ICx intermediate connection cable two connecting plugs (m/m)	
389124	XL-IC1, length 1 m	
389125	XL-IC2, length 2 m	
389126	XL-IC5, length 5 m	
212876	XL-CUT rubber profile cutters (cut length 75 mm)	