

ASO Safety Solutions

SENTIR Edges



Selecting the Edge Profile

ASO Safety Solutions offers several sizes of safety edges to fit most applications, including automatic gate, door, and machine applications. The size (profile) of the edge should be selected based on the application and overtravel permitted by the profile. If the edge experiences overtravel beyond the allowed amount, damage may occur. An additional important deciding factor to consider when determining which profile to use is sensitivity. Sensitivity is the amount of force required to activate the unit.

Where greater actuating forces or overtravel requirements are needed, a safety bumper may be the preferred approach.

Profile Series	Test Speed (10 mm/sec [0.4 in/sec]*		Tested according to DIN EN ISO 13856-2, Test Unit round 80mm, Actuating Point C3, Temp 20 °C	
15 x 10mm [0.6 in x 0.4in]	Force (F) Required for Actuation (A)	42.9N [9.64 lbf]		
	Actuation Distance c	1.8mm [0.07in]		
	Overtravel Distance d to 250 N	1.0mm [0.04in]		
	Overtravel Distance f to 400 N	2.0mm [0.08in]		
	Overtravel Distance h-c to 600 N	2.8mm [0.11in]		
15 x 25mm [0.6 x 1.0in]	Force (F) Required for Actuation (A)	43N [9.67 lbf]		
	Actuation Distance c	3.7mm [0.15in]		
	Overtravel Distance d to 250 N	7.6mm [0.30in]		
	Overtravel Distance f to 400 N	9.3mm [0.37in]		
	Overtravel Distance h-c to 600 N	10.9mm [0.43in]		
25 x 30mm [1.0 x 1.2in]	Force (F) Required for Actuation (A)	35N [7.87 lbf]		
	Actuation Distance c	5.1mm [0.20in]		
	Overtravel Distance d to 250 N	13.1mm [0.52in]		
	Overtravel Distance f to 400 N	15.4mm [0.61in]		
	Overtravel Distance h-c to 600 N	17.3mm [0.68in]		
25 x 30mm [1.0 x 1.2in]	Force (F) Required for Actuation (A)	54.3N [12.21 lbf]		
	Actuation Distance c	10.0mm [0.39in]		
	Overtravel Distance d to 250 N	15.5mm [0.61in]		
	Overtravel Distance f to 400 N	18.1mm [0.71in]		
	Overtravel Distance h-c to 600 N	20.7mm [0.81in]		
25 x 45mm [1.0 x 1.8in]	Force (F) Required for Actuation (A)	63.1N [14.19 lbf]		
	Actuation Distance c	7.2mm [0.28in]		
	Overtravel Distance d to 250 N	19.4mm [0.76in]		
	Overtravel Distance f to 400 N	23.6mm [0.93in]		
	Overtravel Distance h-c to 600 N	26.4mm [1.04in]		
30 x 70mm [1.2 x 2.8in]	Force (F) Required for Actuation (A)	44N [9.89 lbf]		
	Actuation Distance c	8.0mm [0.31in]		
	Overtravel Distance d to 250 N	36.0mm [1.42in]		
	Overtravel Distance f to 400 N	40.0mm [1.57in]		
	Overtravel Distance h-c to 600 N	43.0mm [1.69in]		

* For other speed data, please refer to product data sheets.

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15 x 10mm SENTIR Edges (factory assembled)



The SENTIR edge safety contact edges of ASO Safety Solutions are pressure-sensitive sensors applied to ensure the safety of closing edges at possible crushing or shearing points which are prone to accidents. They may be installed near automatic gates, machines and other facilities for handling equipment or moving stage elements in order to protect individuals from bodily harm or machinery from damage.

Features

- Optimized material properties guarantee fast switching results
- 12 edge lengths available
- Can wire in 2-wire circuits
- Mounting rails included
- Factory assembled (cannot be modified)

ASO Safety Contact Edges – 15 x 10mm						
Part Number	Price	Profile	Length	End Caps	Aluminum Mounting Rail	Drawing
1501-1460		15 x 10mm [0.59 x 0.39in]	4in [0.102m]	8.2K ohm terminating resistor and 2.5m [8.2ft] cable with flying pigtail leads included. These are factory installed.	Included	PDF
1501-1461			6in [0.152m]			PDF
1501-1462			8in [0.203m]			PDF
1501-1463			1ft [0.305m]			PDF
1501-1464			1.2ft [0.366m]			PDF
1501-1465			1.5ft [0.457m]			PDF
1501-1466			1.8ft [0.549m]			PDF
1501-1467			2ft [0.61m]			PDF
1501-1468			2.5ft [0.762m]			PDF
1501-1469			3ft [0.914m]			PDF
1501-1470			3.5ft [1.067m]			PDF
1501-1471			4ft [1.219m]			PDF

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ASO Safety Contact Edges – 15 x 10mm Specifications

Material	TPE
Material Hardness	68 Shore A
Weight (per meter)	100g (3.53 oz) per meter
Protection Class (Enclosure)	IP65
Switching Cycles	10,000
Switching Angle	2 x 20°
Actuation Resistance	≤ 500Ω
Actuation Force	42N
Electrical Capacity	24 VDC, 10 mA
Max. Temperature Range	-25° to +75 °C [-13° to +167 °F]
Operating Temperature	-10° to +55 °C [+14° to +131 °F]
Max. Series Connection	5 contact edges or 100m [328.08ft] based on the ASO safety relay 1114-0210
Inactive End Region with Higher Forces	30mm [1.18in]
Connection Cables	LIY11Y 2 x 0.34 mm ² (22 AWG)
Cable Material	PUR matte black
Agency Approvals	UL Recognized file E341185, CE

Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

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