

# ASO Safety Solutions

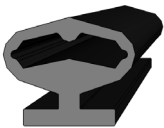
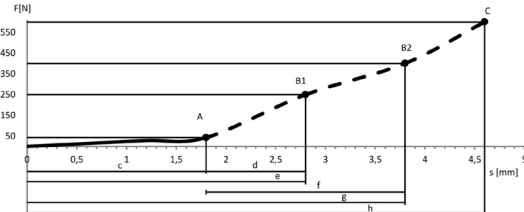
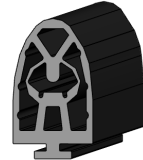
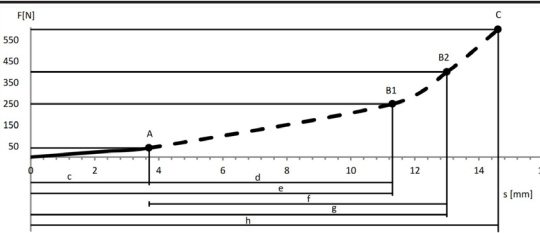
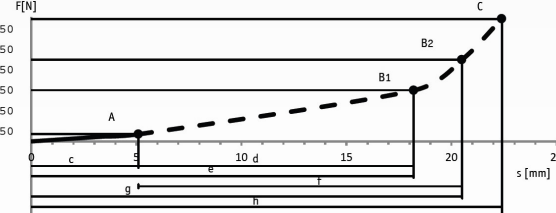
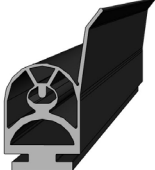
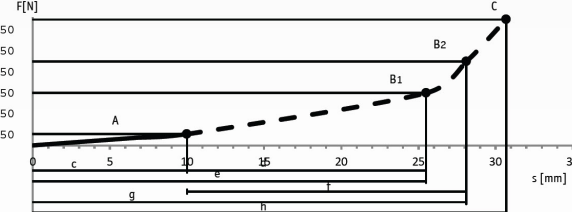
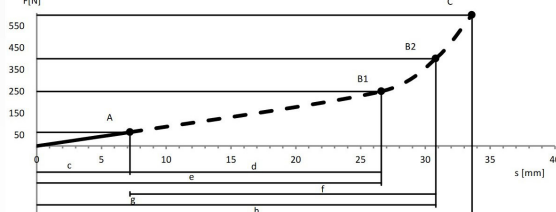
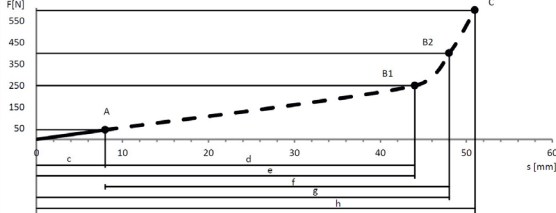
## SENTIR Edges



### 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.

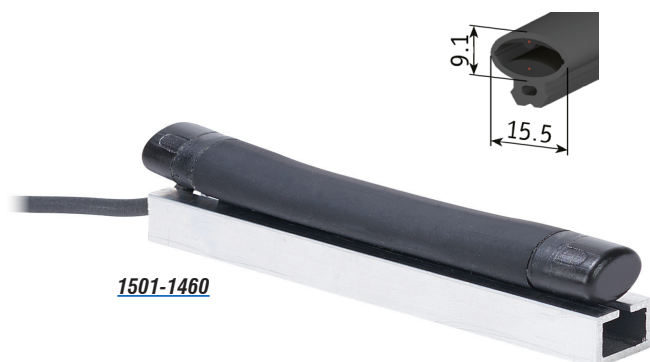
| Profile Series                                                                                                                        | Test Speed (10 mm/sec [0.4 in/sec])* |                    | Tested according to DIN EN ISO 13856-2, Test Unit round 80mm, Actuating Point C3, Temp 20°C |
|-----------------------------------------------------------------------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

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

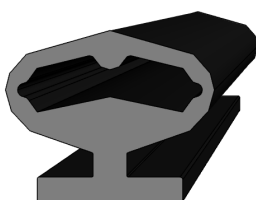
# ASO Safety Solutions



## 15mm x 10mm SENTIR Edges (factory assembled)



**1501-1460**



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 - 15mm x 10mm

| Part Number               | Price    | Profile                            | Length           | End Caps                                                                                                                | Aluminum Mounting Rail | Drawing             |
|---------------------------|----------|------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|
| <a href="#">1501-1460</a> | \$83.00  | 15mm x 10mm<br>[0.59 in x 0.39 in] | 4in [0.102 m]    | 8.2K ohm terminating resistor and 2.5 m [8.2 ft] cable with flying pigtail leads included. These are factory installed. | Included               | <a href="#">PDF</a> |
| <a href="#">1501-1461</a> | \$86.00  |                                    | 6in [0.152 m]    |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1462</a> | \$88.00  |                                    | 8in [0.203 m]    |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1463</a> | \$90.00  |                                    | 1ft [0.305 m]    |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1464</a> | \$92.00  |                                    | 1.2 ft [0.366 m] |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1465</a> | \$94.00  |                                    | 1.5 ft [0.457 m] |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1466</a> | \$100.00 |                                    | 1.8 ft [0.549 m] |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1467</a> | \$102.00 |                                    | 2ft [0.61 m]     |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1468</a> | \$104.00 |                                    | 2.5 ft [0.762 m] |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1469</a> | \$107.00 |                                    | 3 ft [0.914 m]   |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1470</a> | \$112.00 |                                    | 3.5 ft [1.067 m] |                                                                                                                         |                        | <a href="#">PDF</a> |
| <a href="#">1501-1471</a> | \$115.00 |                                    | 4ft [1.219 m]    |                                                                                                                         |                        | <a href="#">PDF</a> |

# ASO Safety Solutions



## 15mm x 10mm SENTIR Edges (factory assembled)

| ASO Safety Contact Edges - 15mm x 10mm Specifications |                                                                             |
|-------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Material</b>                                       | TPE                                                                         |
| <b>Material Hardness</b>                              | 68 Shore A                                                                  |
| <b>Weight (per meter)</b>                             | 100g (3.53 oz) per meter                                                    |
| <b>Protection Class (Enclosure)</b>                   | IP65                                                                        |
| <b>Switching Cycles</b>                               | 10,000                                                                      |
| <b>Switching Angle</b>                                | 2 x 20°                                                                     |
| <b>Actuation Resistance</b>                           | ≤ 500 Ohms                                                                  |
| <b>Actuation Force</b>                                | 42N                                                                         |
| <b>Electrical Capacity</b>                            | 24VDC, 10mA                                                                 |
| <b>Max. Temperature Range</b>                         | -25° to +75°C (-13° to +167°F)                                              |
| <b>Operating Temperature</b>                          | -10° to +55°C (+14° to +131°F)                                              |
| <b>Max. Series Connection</b>                         | 5 contact edges or 100m [328.08 ft] based on the ASO safety relay 1114-0210 |
| <b>Inactive End Region with Higher Forces</b>         | 30mm (1.18 in)                                                              |
| <b>Connection Cables</b>                              | LIY11Y 2 x 0.34 mm <sup>2</sup> (22AWG)                                     |
| <b>Cable Material</b>                                 | PUR matte black                                                             |
| <b>Agency Approvals</b>                               | 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.*

*AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.*