



# ASO Safety Solutions SENTIR Bumpers

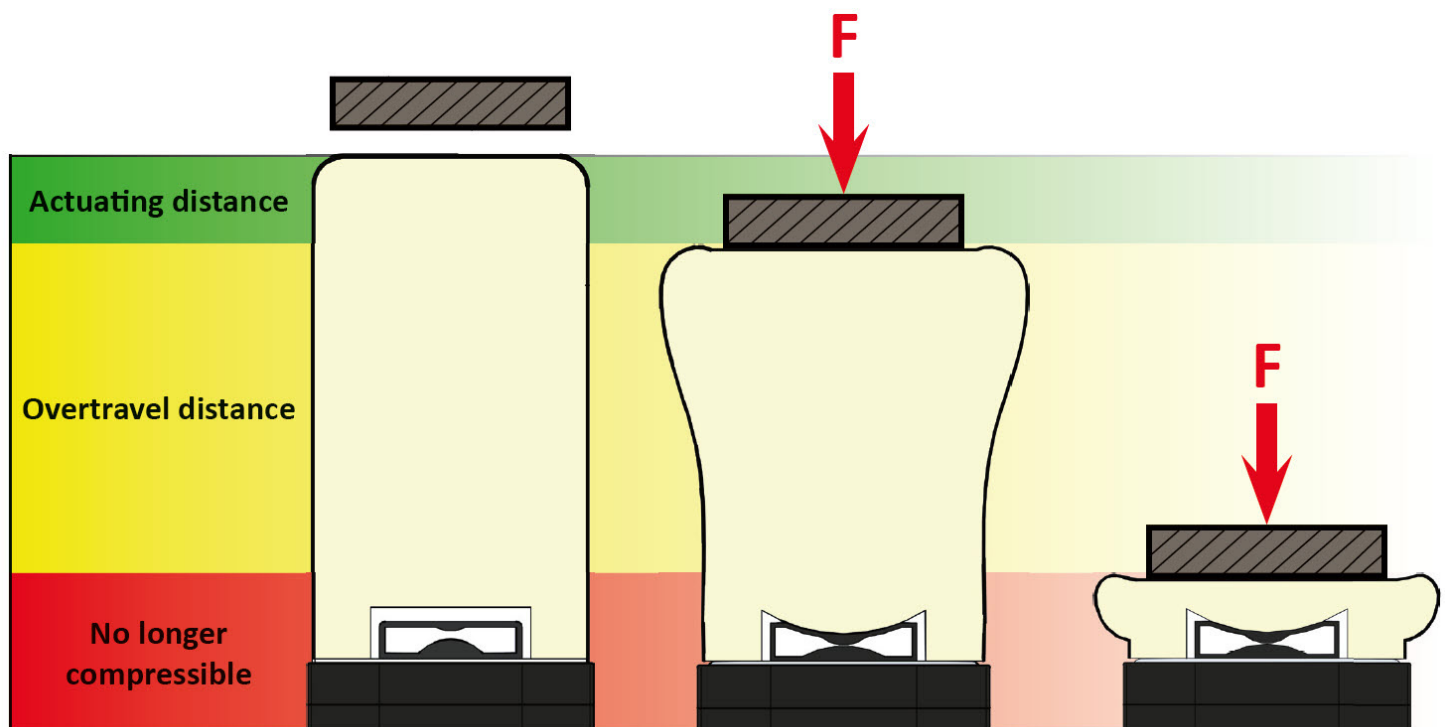


## Selecting the Bumper Profile

ASO Safety Solutions offers several sizes of safety bumpers to fit most applications, including automatic gate, door, and machine applications. The size (profile) of the bumper should be selected based on the application and overtravel permitted by the profile. If the bumper 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 lesser actuating forces are used, a safety edge may be the preferred approach.

| Profile Series   | Actuation Force and Distance     |                  |
|--|----------------------------------|------------------|
|  <p><b>60mm x 100mm</b><br/>[2.4 in x 3.9 in]</p>   | Force (F) Required for Actuation | 150N [33.72 lbf] |
|  | Actuation Distance               | 15mm [0.59 in]   |
|  | Maximum Overtravel Distance      | 60mm [2.36 in]   |
|  <p><b>100mm x 200mm</b><br/>[3.9 in x 7.9 in]</p> | Force (F) Required for Actuation | 150N [33.72 lbf] |
|  | Actuation Distance               | 30mm [1.18 in]   |
|  | Maximum Overtravel Distance      | 120mm [4.72 in]  |



# ASO Safety Solutions

## 100mm x 200mm SENTIR Bumpers



1701-4780

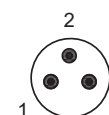
Adaptable, extremely versatile and totally reliable – these qualities are the hallmarks of our SENTIR safety bumpers. These safety bumpers are highly valued in a wide range of applications from those involving transport vehicles and industrial trucks to high-shelf warehouses, production lines, or mobile systems – in fact, anywhere that a flexible safety bumper solution is required.

### Features

- Mounting rail included
- Insensitive to vibration
- Reliable switching operation in rugged applications
- Can wire in 2-wire or 4-wire circuits

| ASO Safety Solutions SENTIR Bumpers - 100mm x 200mm |          |                                      |              |                        |  |  |                     |
|---|----------|--------------------------------------|--------------|------------------------|--|--|---------------------|
| Part Number   | Price    | Profile                              | Length       | Aluminum Mounting Rail | Cable Length                                       | Connection Cables  | Drawing             |
| <a href="#">1701-4780</a>                           | \$235.00 | 100mm x 200mm<br>[3.94 in x 7.87 in] | 1ft [0.30 m] | Included               | Two cables,<br>each 4.7 in<br>[120mm] in<br>length | One cable has a 3-pin male<br>M8 connector. The other<br>cable has a 3-pin female M8<br>connector. | <a href="#">PDF</a> |
| <a href="#">1701-4790</a>                           | \$265.00 |                                      | 2ft [0.61 m] |                        |  |  | <a href="#">PDF</a> |
| <a href="#">1701-4800</a>                           | \$296.00 |                                      | 3ft [0.91 m] |                        |  |  | <a href="#">PDF</a> |
| <a href="#">1701-4810</a>                           | \$327.00 |                                      | 4ft [1.22 m] |                        |  |  | <a href="#">PDF</a> |
| <a href="#">1701-4820</a>                           | \$358.00 |                                      | 5ft [1.52 m] |                        |  |  | <a href="#">PDF</a> |
| <a href="#">1701-4830</a>                           | \$419.00 |                                      | 6ft [1.83 m] |                        |  |  | <a href="#">PDF</a> |

M8 Connector



**Use pins 1 and 3  
for continuity.  
(See safety relay  
for wiring)**



1810-0190

| ASO Safety Solutions Terminating Resistors |        |  |                                    |            |         |
|--|--------|--|------------------------------------|------------|---------|
| Part Number                                | Price  | Description  | Use With                           | Contents   | Drawing |
| <a href="#">1810-0190</a>                  | \$8.75 | Terminating resistor, 8.2 kΩ,<br>3-pin male M8 connector | Safety contact mats<br>and bumpers | 1 resistor | PDF     |

| ASO Safety Solutions SENTIR Bumpers General Specifications – 100mm x 200mm |   |
|--|---|
| Material   | Artificial leather (PVC)  |
| Weight (per meter)   | 3.4 kg per m [2.26 lb per ft]   |
| Protection Class (Enclosure)   | IP54  |
| Switching Cycles   | >10,000 (UL 325)  |
| Switching Angle  | ±45°  |
| Actuation Resistance   | ≤ 500 Ohms  |
| Actuation Force  | Test piece Ø 80mm (3.15 in) = approximately 150N                      |
| Mechanical Life  | 10,000 cycles   |
| Electrical Capacity  | 24VDC, 10mA   |
| Operating Temperature  | 0° to 55°C [32° to 131°F]   |
| Max. Series Connection   | 5 bumpers or 100m [328.08 ft] based on the ASO safety relay 1114-0210 |
| Inactive End Region with Higher Forces                                     | None – bumper is active all the way to each edge                      |
| Cable Material   | Polyurethane mat 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.*

*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.*