




# ASO Safety Solutions SENTIR Bumpers

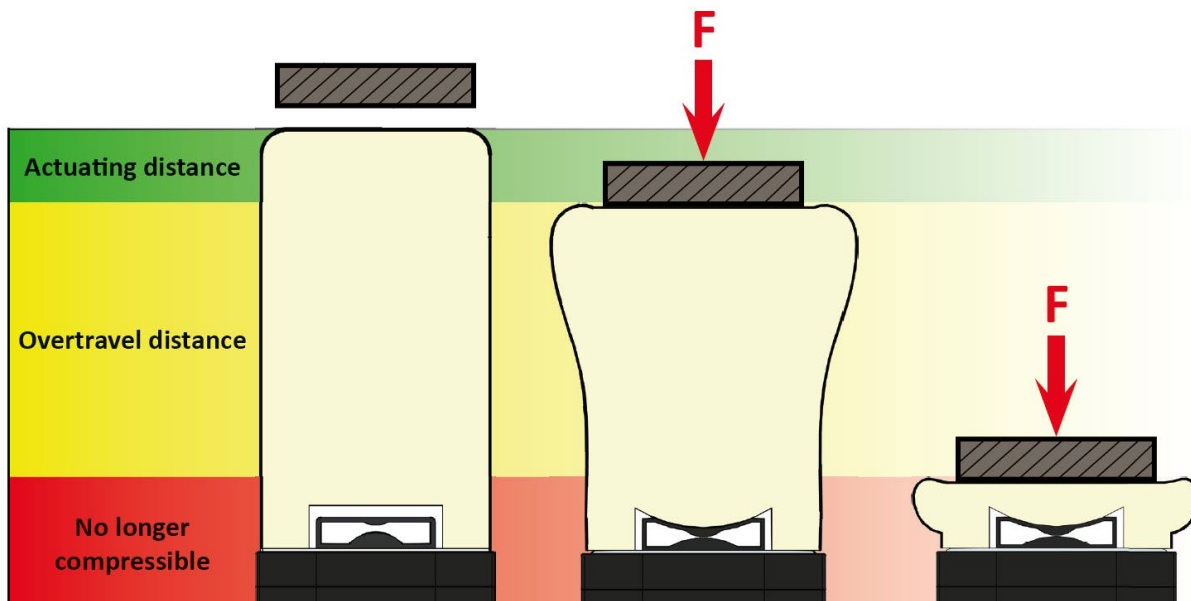


## Selecting the Bumper Profile

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		IP Rating
<b>60mm x 100mm</b> <b>[2.4 in x 3.9 in]</b>  <b>1701-3690</b>	Force (F) Required for Actuation	150N [33.72 lbf]	IP54
	Actuating Distance	15mm [0.59 in]	
	Overtravel Distance	60mm [2.36 in]	
<b>100mm x 120mm</b> <b>[3.9 in x 4.7 in]</b>  <b>1701-6380</b>	Force (F) Required for Actuation	200N [44.96 lbf]	IP67
	Actuating Distance	18mm [0.71 in]	
	Overtravel Distance	72mm [2.83 in]	
<b>100mm x 200mm</b> <b>[3.9 in x 7.9 in]</b>  <b>1701-4780</b>	Force (F) Required for Actuation	150N [33.72 lbf]	IP54
	Actuating Distance	30mm [1.18 in]	
	Overtravel Distance	120mm [4.72 in]	



# ASO Safety Solutions

## 100mm x 120mm SENTIR Bumpers

**1701-6380**

Adaptable, extremely versatile and totally reliable – these qualities are the hallmarks of our outdoor-rated SENTIR safety bumpers. These safety bumpers are useful in a wide range of applications ranging 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

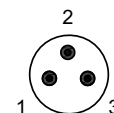
- Outdoor rated
- Insensitive to vibration
- Reliable switching operation in rugged applications
- Can be used in 2-wire or 4-wire circuits
- Mounting rail included

**Outdoor Rated**

### ASO Safety Solutions SENTIR Bumpers – 100mm x 120mm

Part Number	Price	Profile	Length	Color	IP Rating	Aluminum Mounting Rail	Cable Length	Connection Cables	Drawing
<a href="#">1701-6380</a>	\$775.00	100mm x 120mm [3.94 in x 4.72 in]	4ft [1.22 m]	Yellow/black	IP67	Included	Two cables, each 4.7 in [120mm] in length	One cable has a 3-pin male M8 connector. The other cable has a 3-pin female M8 connector.	<a href="#">PDF</a>
<a href="#">1701-6390</a>	\$908.00		5ft [1.52 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, 3-pin male M8 connector	Safety contact mats and bumpers	1 resistor	PDF

### ASO Safety Solutions SENTIR Bumpers General Specifications – 100mm x 200mm

<b>Material</b>	Artificial leather (PVC)
<b>Weight</b>	2.86 kg/m [1.93 lb/ft]
<b>Protection Class (Enclosure)</b>	IP67
<b>Switching Cycles</b>	>10,000 (UL 325)
<b>Switching Angle</b>	±45°
<b>Actuation Resistance</b>	≤ 500Ω
<b>Actuation Force</b>	Test piece Ø 80mm [3.15 in] = approximately 200N
<b>Mechanical Life</b>	10,000 cycles
<b>Electrical Capacity</b>	24VDC, 10mA
<b>Operating Temperature</b>	-20° to 50°C [-4° to 122°F]
<b>Maximum Temperature Range</b>	-25° to 75°C [-13° to 167°F]
<b>Maximum Series Connection</b>	5 bumpers or 100m [328.08 ft] based on the ASO safety relay 1114-0210
<b>Inactive End Region with Higher Forces</b>	None – bumper is active all the way to each edge
<b>Cable Material</b>	Polyurethane matte black
<b>Agency Approvals</b>	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.*