

ASO Safety Solutions



SENTIR Bumpers

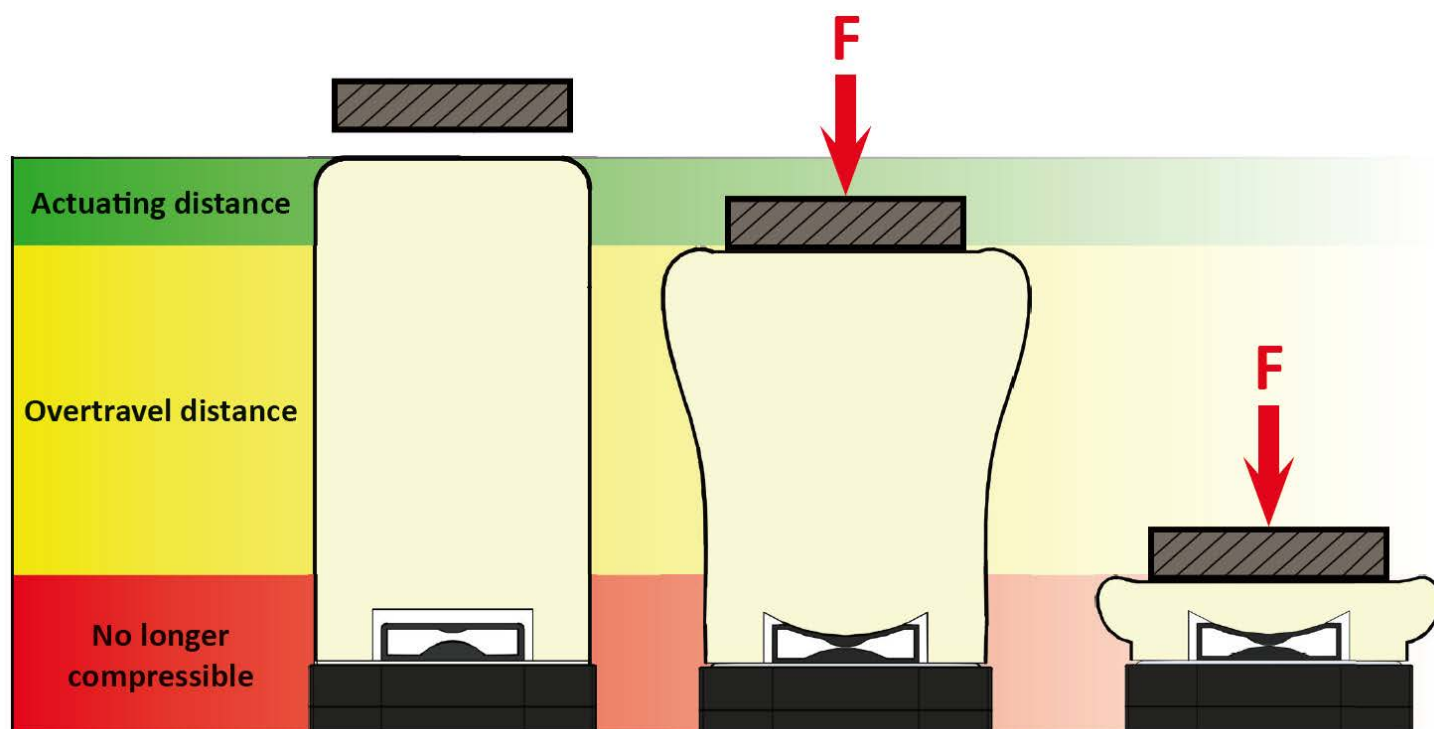


Selecting the Bumper Profile

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	
60mm x 100mm [2.4 in x 3.9 in] 	Force (F) Required for Actuation	150N [33.72 lbf]
	Actuation Distance	15mm [0.59 in]
	Maximum Overtravel Distance	60mm [2.36 in]
100mm x 200mm [3.9 in x 7.9 in] 	Force (F) Required for Actuation	150N [33.72 lbf]
	Actuation Distance	30mm [1.18 in]
	Maximum Overtravel Distance	120mm [4.72 in]



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60mm x 100mm SENTIR Bumpers

**1701-3690**

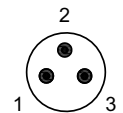
Adaptable, extremely versatile and totally reliable – these qualities are the hallmarks of our SENTIR safety bumpers. These safety bumpers are highly valued in a wide range of applications from those involving transport vehicles and industrial trucks to high-shelf warehouses, production lines, or mobile 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 - 60mm x 100mm							
Part Number	Price	Profile	Length	Aluminum Mounting Rail	Cable Length	Connection Cables	Drawing
1701-3690	\$0450b:	60mm x 100mm [2.36 in x 3.94 in]	1ft [0.30 m]	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.	PDF
1701-3700	\$0450c:		1.5 ft [0.46 m]				PDF
1701-3710	\$0450d:		2ft [0.61 m]				PDF
1701-3720	\$0450e:		2.5 ft [0.76 m]				PDF
1701-3730	\$;0450f:		3ft [0.91 m]				PDF
1701-4750	\$05dk_:		4ft [1.22 m]				PDF
1701-4760	\$05dks:		5ft [1.52 m]				PDF
1701-4770	\$;05dkt:		6 ft [1.83 m]				PDF

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
1810-0190	\$10hx:	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 – 60mm x 100mm	
Material	Artificial leather (PVC)
Weight (per meter)	2.1 kg per m [1.39 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 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.

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.