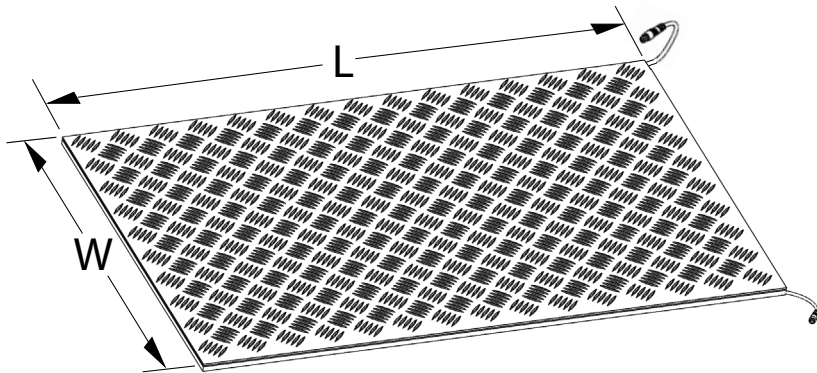


# ASO Safety Solutions

## SENTIR Diamond Plate

### Straight Edge Safety Contact Mats



SENTIR safety contact mats are rectangular sections which are used to safeguard dangerous areas in industrial and production automation settings. Stepping on the mat triggers an immediate "stop" signal in order to prevent endangering movements.

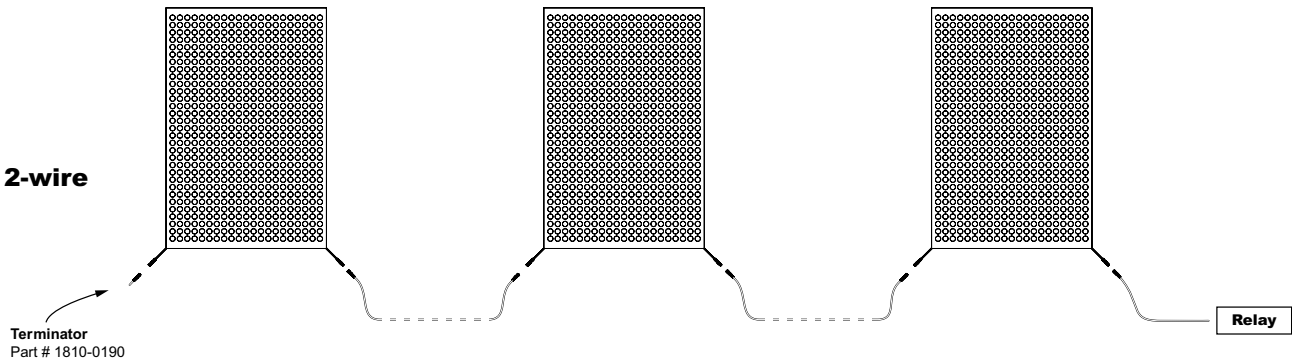
SENTIR Straight Edge mats are designed with flexibility in mind. Two quick-disconnect ends allow for easy single or multi-mat wiring in either 2-wire or 4-wire circuits with optional terminating resistor. The straight edge allows butting of additional mats and use of optional metal trim kits for securing to the floor.

### Features

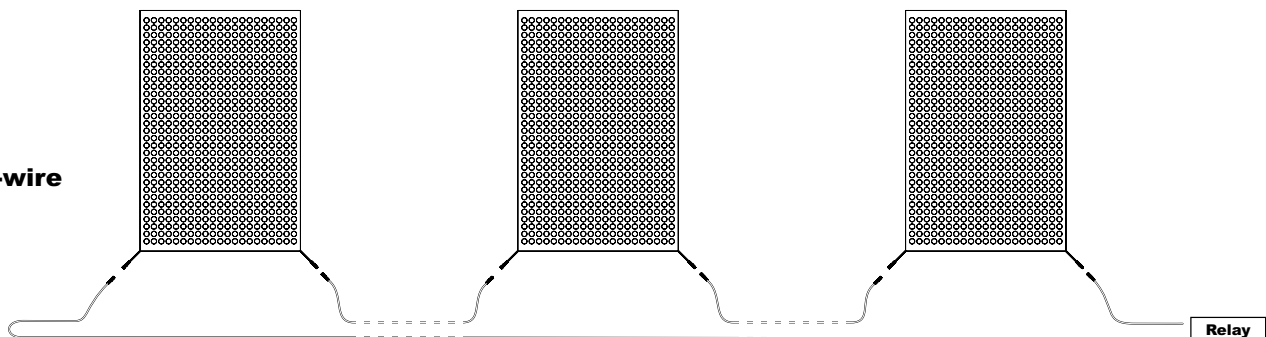
- Diamond plate sheet included to protect in harsh conditions
- Straight edge ideal for trim kits and multi-mat configurations
- Ideal for 2-wire circuits with optional terminating resistor
- Can wire in 2-wire or 4-wire circuits
- Male and female quick disconnect
- Two sizes available
- Resistant to most contaminants and moisture up to IP65



#### 2-wire



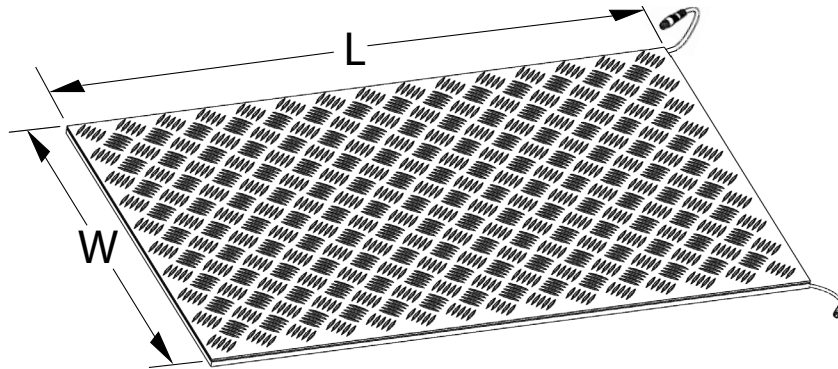
#### 4-wire



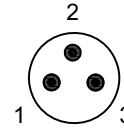
# ASO Safety Solutions

## SENTIR Diamond Plate

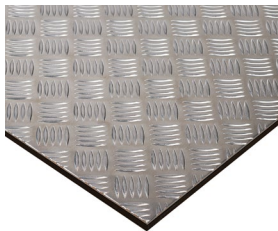
### Straight Edge Safety Contact Mats



M8 Connector



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

**1602-4540**

#### ASO Safety Solutions Contact Mats - Straight Edge Style

Part Number	Price	Width (W)	Length (L)	Operating Voltage	Cable Length	Connection Cables	Drawing
<b>1602-4540</b>	\$574.00	24in [609.6 mm]	36in [914.4 mm]	24VDC, 100mA	There are two cables; each is 4.7 inches [120mm] in length	One cable has a 3-pin male M8 connector, and the other cable has a 3-pin female M8 connector	<a href="#">PDF</a>
<b>1602-4550</b>	\$695.00	24in [609.6 mm]	48in [1219.2 mm]				<a href="#">PDF</a>

**1810-0190**

#### ASO Safety Solutions Terminating Resistors

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

**2010-0080**

#### ASO Safety Contact Mat Trim Kits and Corners

Part Number	Price	Description	Material	Use With	Contents	Drawing
<b>2010-0080</b>	\$97.00	Trim kit	Aluminum	24 x 36 in safety mats	4 trim corners and 4 mat trim pieces	<a href="#">PDF</a>
<b>2010-0081</b>	\$107.00	Trim kit	Aluminum	24 x 48 in safety mats	4 trim corners and 4 mat trim pieces	<a href="#">PDF</a>
<b>2010-0086</b>	\$56.00	Mat trim	Aluminum	Safety contact mats	1 mat trim, 5ft [1524mm] length	<a href="#">PDF</a>
<b>2010-0087</b>	\$3.75	Trim corner	Polyamide	Safety contact mats	1 corner	<a href="#">PDF</a>

**2010-0086****2010-0087**

#### Straight Edge Safety Contact Mats

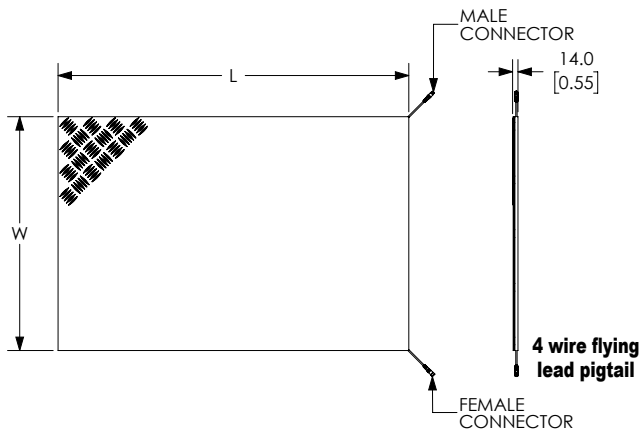
	General Specifications
<b>Height</b>	14mm [0.55 in] with covering
<b>Material</b>	Polyurethane and aluminum diamond plate surface
<b>Weight</b>	31.5 kg/m <sup>2</sup> [6.45 lb/ft <sup>2</sup> ]
<b>Switching Pressure</b>	Test piece Ø 80mm [3.15 in] = approximately 150N
<b>Inactive Edge</b>	30mm [1.18 in] without optional trim installed 40mm [1.57 in] with optional trim installed
<b>Static Load</b>	Max. 2,000N on Ø 80mm [3.15 in], tested according to DIN EN ISO 13856-1
<b>Response Time</b>	< 25ms, tested according to DIN EN ISO 13856-1
<b>Electrical Capacity</b>	24VDC, 100mA
<b>Mechanical Life</b>	>1,000,000 cycles
<b>Protection Class</b>	IP65
<b>Temperature Range</b>	-20° to +55°C [-4° to +131°F]
<b>Agency Approvals</b>	CE, cULus file E329422

# ASO Safety Solutions SENTIR Diamond Plate Straight Edge Safety Contact Mats

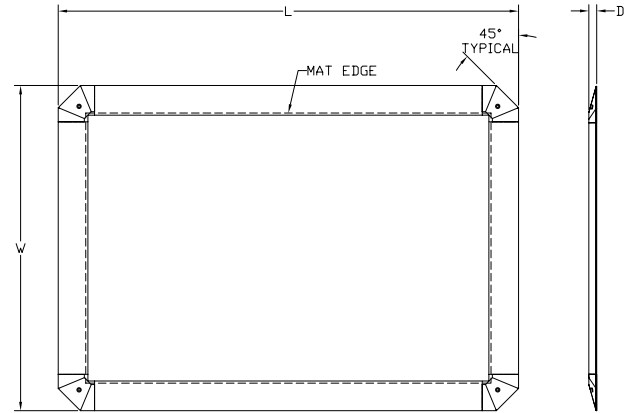
## Dimensions

mm [in]

### Contact Mats - Straight Edge (1602-41XX)



### Trim Kits (2010-008X)



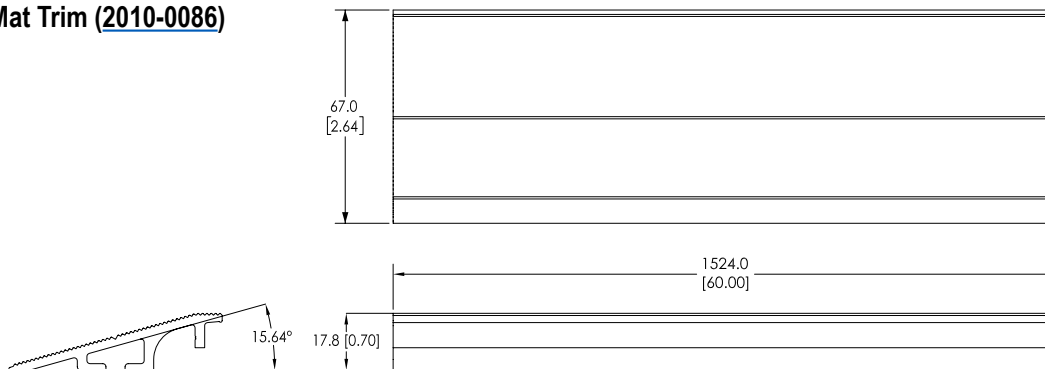
### Part Information – Contact Mats (Straight Edge)

Part number	W mm (in)	L mm (in)	D mm (in)
<b>1602-4540</b>	609.6 (24)	914.4 (36)	14 (0.55)
<b>1602-4550</b>		1219.2 (48)	

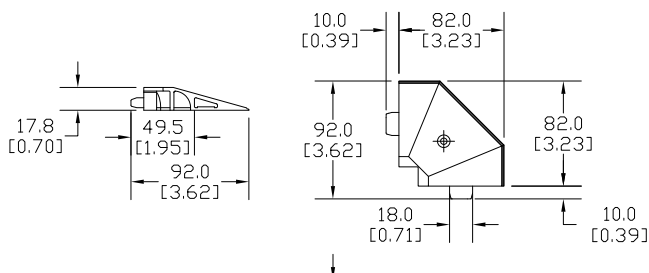
### Part Information – Trim Kits

Part number	W mm (in)	L mm (in)	D mm (in)
<b>2010-0080</b>	733.5 (28.88)	1038.3 (40.88)	17.8 (0.70)
<b>2010-0081</b>		1343.1 (52.88)	

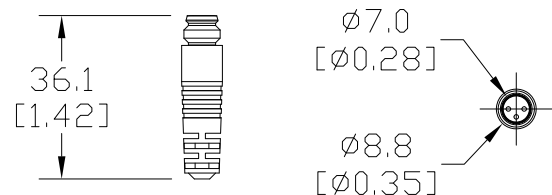
### Mat Trim (2010-0086)



### Trim Corner (2010-0087)



### Terminating Resistor (1810-0190)



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering Drawings.

# Safety Products



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