



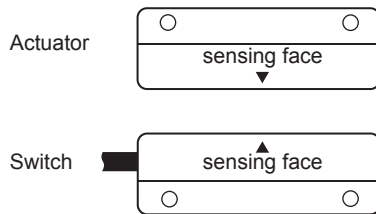
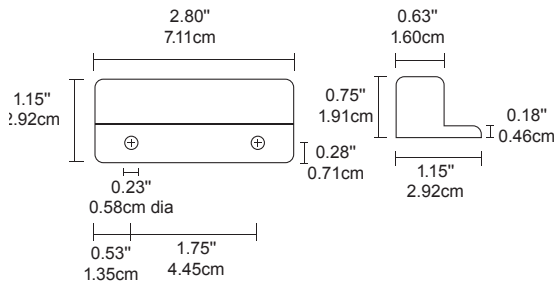
Non-Contact Interlock/Position Switch 151 & 153 GuardSwitch

Applications

- Packaging Machines
- Food Processing Machines
- Waste Compactors
- Mixers, Blenders, and Dryers

General Specifications

Enclosure	Polyurethane Enamel-Coated Aluminum
Temperature Range	-40°F to 180°F (-40°C to 80°C)
Environmental	Hermetically Sealed Contact Switch Encapsulated in Polyurethane
NEMA Rating	4, 4X, 5, 6, 12, 12K
Protection Class	IP 67
Response Time	1 msec; 10 msec (150VA)
Life Cycles	100,000 Under Full Load; Up to 200,000,000 Under Dry Circuit Load
Types/O.D.	18/2 SJTOW (K) / 0.30" (0.76cm)
(Armored cable available)	18/4 SJTOW (K) / 0.34" (0.86cm)
UL/CSA	All Models



UL US
File E 122942

CSA
LR89176

Order Information

Electrical Specifications

Part Number ¹	Contact ² Config.	Load Rating		Switching Voltage, Max.		Switching Current, Max.		Contact Resistance	Sense Range ³		Break Range	Lead Length
		AC	DC	AC	DC	AC	DC		Nominal	Nominal		
151-6Z-06K	N.O.	25VA	25W	120V (@0.2A)	120V (@0.2A)	0.7A (@35V)	1.0A (@25V)	0.2 Ohms	1.5" (3.8cm)	2.0" (5.1cm)	6' (1.8m)	
151-6Z-12K	N.O.	25VA	25W	120V (@0.2A)	120V (@0.2A)	0.7A (@35V)	1.0A (@25V)	0.2 Ohms	1.5" (3.8cm)	2.0" (5.1cm)	12' (3.6m)	
151-7Z-06K	N.O.	100VA	84W	120V (@0.8A)	28V (@3.0A)	3.0A (@34V) ⁴	3.0A (@28V) ⁴	1.0 Ohms	1.2" (3.0cm)	1.8" (4.6cm)	6' (1.8m)	
153-7Z-06K	N.O.	100VA	84W	120V (@0.8A)	28V (@3.0A)	3.0A (@34V) ⁴	3.0A (@28V) ⁴	1.0 Ohms	1.2" (3.0cm)	1.8" (4.6cm)	6' (1.8m)	
151-7Z-12K	N.O.	100VA	84W	120V (@0.8A)	28V (@3.0A)	3.0A (@34V) ⁴	3.0A (@28V) ⁴	1.0 Ohms	1.2" (3.0cm)	1.8" (4.6cm)	12' (3.6m)	
153-7Z-12K	N.O.	100VA	84W	120V (@0.8A)	28V (@3.0A)	3.0A (@34V) ⁴	3.0A (@28V) ⁴	1.0 Ohms	1.2" (3.0cm)	1.8" (4.6cm)	12' (3.6m)	
151-7Z-06K-D3	DPST,N.O.,N.C.	100VA	84W	120V (@0.8A)	28V (@3.0A)	3.0A (@28V) ⁴	3.0A (@28V) ⁴	1.0 Ohms	1.2" (3.0cm)	1.8" (4.6cm)	6' (1.8m)	
151-8Z-12K	N.O.	150VA	NA	120V (@0.8A)	NA	1.25A (@120V) ⁵	NA	NA	1.4" (3.5cm)	2.1" (5.3cm)	12' (1.8m)	
150-Z	Actuator Only											

Warning— Each electrical rating is an individual maximum and cannot be exceeded!

¹ The part number 153 is the same as 151 in all respects except the cable exits 151 left and 153 right.

² Configuration with actuator away from the switch

³ Proximity of ferrous materials usually reduces sense range — typically by 50%. The shape and type of material cause a wide diversity of effects. Testing is required to determine actual sense range for specific applications.

⁴ Rated at 3.0A for 6,000 cycles only. Other ratings are at 100,000 cycles.

⁵ Can withstand inrush surge up to 4 amps. Voltage Drop 1.5V, minimum switch current, 30mA, triac output.