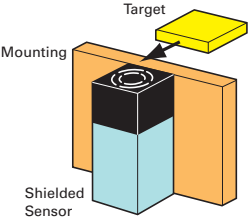
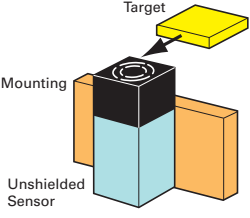
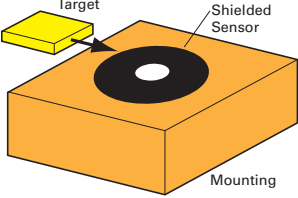
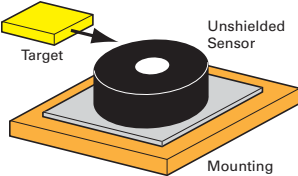


Inductive Proximity Sensors, continued

Sensing Application	Sensing Style	Size	Max Range	Product Family	Page
	Shielded limit switch	118 x 40 x 40 mm 114 x 39 x 38.4 mm	13 mm	E51 Modular Limit Switch Style Sensors E51 Limit Switch Style, Factory Sealed 6P+ Sensors E55 Limit Switch Style Sensors with Nonmetallic Housings	V8-T3-83 V8-T3-92
	Unshielded limit switch	118 x 40 x 40 mm 114 x 39 x 38.4 mm	24 mm	E51 Series E55 Series	V8-T3-83 V8-T3-92
	Shielded pancake	79 x 79 x 39 mm	40 mm	E56 Series	V8-T3-66
	Unshielded pancake	79 x 79 x 39 mm 110 x 110 x 41 mm 171.5 x 171.5 x 67.5 mm	100 mm	E56 Series	V8-T3-66

Technical Reference

Inductive Proximity Sensors

3



General

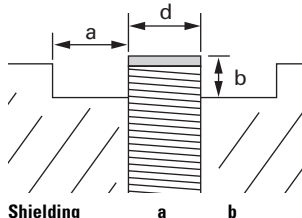
There are a number of factors which should be considered when applying induction proximity sensors. A detailed discussion of these factors can be found on **Page V8-T12-4**. Presented below are a few of the more important considerations for quick reference.

Mounting

Inductive proximity sensors are available in two classifications: shielded (also known as embeddable or flush mountable) and unshielded (non-embeddable or non-flush mountable). What these terms refer to is the distance to surrounding metal that the device can be mounted. In the case of a shielded sensor the device can be mounted with the sensor completely surrounded by metal.

In the case of an unshielded sensor, a metal free zone must be provided when mounting the sensor. The size of the metal free zone is dependent on both the size of the sensor and the type of sensing range it has, i.e., standard or extended.

Mounting Ranges



Shielding	a	b
Standard Range		
Shielded	0	0
Unshielded	2 x Sn	Cap height
Extended Range		
Semi-shielded	Sn	d
Non-embeddable	2 x Sn	Cap height

Where **a** and **b** are the metal free dimensions.

When mounting the sensors, do not exceed the following recommended torque specifications.

Torque Specifications

Stainless Steel	Nickel-Plated Brass
12 mm Diameter	
35 lb-in (4.0 Nm)	20 lb-in (2.3 Nm)
18 mm Diameter	
70 lb-in (7.9 Nm)	70 lb-in (7.9 Nm)
30 mm Diameter	
70 lb-in (7.9 Nm)	70 lb-in (7.9 Nm)