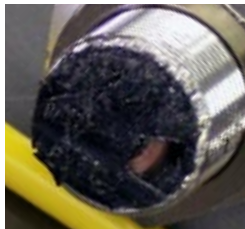


Cut sensor damage and waste, shorten cable repair time.

Standard inductive proximity sensors can last virtually forever under ideal conditions, but in the real world two common failure modes can knock them out of action: impact to the sensor face and damage to the sensor/cable connection.

Problem: Sensor Impact

An inductive proximity sensor is intended to be a non-contact device, typically constructed with a plastic sensing face and enclosed in a thin metal housing. They are not designed to handle direct and repeated impact by manufacturing machinery or process parts.



Solution: SteelFace™

Unlike a standard prox, the entire body (front end included) of a Balluff SteelFace™ sensor is machined from a solid bar of stainless steel. The sensing face and housing walls are thick enough to absorb repeated mechanical impact without loss of sensor function.



SteelFace Part Number	Size	Sn
BES M12EN1-USU20*_S21G-S	M12 x 83 mm	2mm F
BES M18EP1-USU50*_S21G-S	M18 x 87.5	5mm F

* S=Ferrous Targets, N=Non-Ferrous Targets

Cordset Part Number	Polarity	Length
C21 ENA-04-TY-003M-C	Polarized	300 mm
C21 ENA-04-TY-003M-D	Non-Polarized	300 mm

Technical Specifications	Values
Supply Voltage	20...250 VAC / 300 VDC
Degree of Protection	IP 67 / 1200 psi Washdown
Housing Material	Stainless Steel 303



Reduce maintenance costs and down time with a sacrificial cordset

Most sensors are connected in one of three ways: cable mounted pigtail connector, cable out with flying leads, and integrated connector. Balluff recommends selecting SteelFace™ sensors with integrated connectors. These can be used with a sacrificial cordset installed as an extension between a main cable and the sensor. When a pigtail connector or cable with flying leads is used and the cable is damaged, a perfectly good sensor must be replaced. By using the sacrificial cordset and a sensor with an integrated connector, expensive maintenance and down-time can be reduced.



Enhanced cable protection for welding applications

Balluff's double-ended AC-to-DC micro sacrificial cordsets are made with tough TPE jacket material for increased resistance to cable burn-through from welding heat and spatter. For even more protection, the sacrificial cordset can be ordered encased in Balluff WeldRepel™ tubing and installed with Balluff WeldRepel™ wrap over the connections.



Putting it all together for 2-wire DC applications

Although Balluff's AC/DC SteelFace™ can operate as a 2-wire DC sensor, its standard AC micro connector isn't compatible with DC micro connector cables. But that's no problem when a double-ended sacrificial cordset is employed. The sacrificial cordsets adapt from AC micro to 2-wire DC micro, polarized or non-polarized. See table above for complete sensor and cordset ordering information.

For more information, visit:

www.balluff.com/SteelFace2Wire

