iProx—the world's most versatile proximity sensor

EATON
Powering Business Worldwide

The world's most versatile proximity sensor

Eaton's iProx™ is synonymous with high performance and versatility. Just talk to the thousands of satisfied customers who have used iProx to solve their toughest inductive sensing challenges. With a broad product offering of more than 100 catalog models in four-wire DC and two-wire AC, different barrel sizes, and a variety of connection options, there's sure to be a perfect iProx solution to your application.

The features you want, right out of the box

The iProx family includes a number of unique features designed to simplify installation, maintenance and troubleshooting. These features come standard, right out of the box.

- Auto-configure outputs are a feature unique to DC-powered iProx models. It auto-detects if the sensor has been wired into inputs requiring NPN (sinking) or PNP (sourcing), and configures the sensor to that mode automatically. Now, one iProx sensor can replace two models, meaning you can stock fewer sensors. Auto-Configure outputs make iProx a "plug-and-play" sensing solution
- All iProx models come with extended sensing range. Tubular models with sensing ranges of up to 29 millimeters are available—that's more than twice the range of standard inductive sensors of the same size
- Only the highest quality materials are used in the construction of iProx sensors. Stainless steel barrels, Ryton® corrosion-resistant face caps, a unique vibration-absorbing potting compound, and temperature ratings all the way down to –40°C make this sensor suitable for operation in the toughest environments
- A convenient, 360-degree LED indicator on the end-bell of the sensor is visible from any angle. This high-intensity LED is dual-color to indicate both power and output status

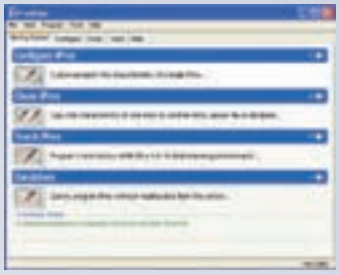
Unleash advanced programmable features—if you need them

What makes iProx so different from all those "other" inductive sensors? For starters, it contains an embedded microprocessor that allows it to perform unique sensing functions at extended ranges.

A number of advanced sensing features can be enabled using Eaton's ProxView Windows®-based programming software. In fact, using the software, you can fully customize iProx exactly to meet your application needs (see below). Sensor characteristics, such as sensing range or sensing "bands," can be customized to the nearest tenth of a millimeter. Outputs can be changed from normally open (NO) to normally closed (NC). Noise immunity and response time can be adjusted if necessary. And even advanced timing delays and speed detection logic can be enabled through the software—no PLC programming or external timing relays necessary.

The ProxView software package even includes its own competitor database. Want to replace another manufacturer's sensor with iProx? Just type the model number into the ProxView database and your iProx will be "cloned" to the nearest match.

With an iProx sensor, the ProxView programming software, and a programming cable (E59RP1), you can customize iProx to fit your application—perfectly.

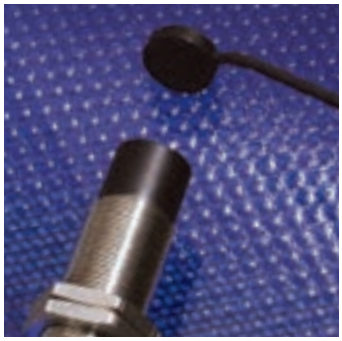


ProxView software for Microsoft® Windows provides an easy way to customize your iProx sensors.

Once installed, you can "teach" the sensor to work perfectly in its environment.

Within the programming screen, you can customize the characteristics of your iProx sensor.

With iProx programming tools, it's easy to connect iProx to your computer.



A programming wand enables configuration when the sensor is installed.

A 360-degree LED is visible from all angles.

Unique vibration-absorbing potting compound.

Have it made to your exact specifications

Intrigued by the features and capabilities of iProx, but don't want to fiddle with the programming software? There's likely a standard catalog model that will meet your needs. But if you desire an iProx with special capabilities, such as a unique sensing distance, "band" sensing, health outputs, timing delays, or even a unique connector cable, Eaton can manufacture iProx to your exact specifications.

But we won't stop there. If you wish, our application and manufacturing engineers can create a unique model number, just for your company.

Eaton has a long history of working with large material handling, metalworking and machinery OEMs to deliver custom-tailored inductive sensors, photoelectric sensors, current sensors and mechanical limit switches. Let us put iProx sensors to work for you.

Accessorize your iProx

Simplify your next prox installation with high-quality Global Plus connectivity solutions from Eaton. Choose from a wide assortment of single- or double-ended microconnector cables in a variety of jacket materials and lengths. Quickly wire multiple sensors using our multi-connector blocks, or make your installation perfect with our field-wireable connector components.

Fewer products. Less inventory.

Lean. It's today's manufacturing battle cry, and the iProx can help you get there. With this sensor, you have solutions for thousands of those once-unsolvable applications. This means less inventory and less time researching and procuring the right inductive sensor for the job. You save time and money, and your equipment runs longer. That's just what today's manufacturing environment demands.

Feature	Included
Extended sensing range	■
360-degree LED indicator	■
Stainless steel barrel	■
Impact-absorbing potting compound	■
Programmable output type (PNP, NPN, auto configure)	■
Programmable output mode (normally open, normally closed)	■
Programmable sensing range and band sensing	■
Programmable response time and noise immunity (very low, low, medium, high)	■
Programmable output on/off delay	■
Programmable over/under speed detection	■
Dual outputs optionally available ❶	■

❶ Dual output requires a different part number. PNP/NPN must be identified and cannot be programmed.

	Product	Catalog Number	Description
	iProx programmable sensor	**E59-M…**	Free programming software for Microsoft Windows, available from www.eaton.com/proxview
	ProxView	**E59SW1**	Step-by-step programming software for Windows and Windows Mobile® devices; www.eaton.com/proxview
	Remote programmer	**E59RP1**	Cable required for computer-to-sensor communications

"Teach" the sensor to trip at a custom point within its sensing field, either laterally or axially.

Set up iProx to ignore nuisance metal objects in the foreground or background.

"Band sensing" mode allows iProx to sense only in a small band within its full sensing range.

Enable advanced timing features such as time delays and speed detection, without using external controls.

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But, decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority. For more information, **visit www.eaton.com/electrical**.

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