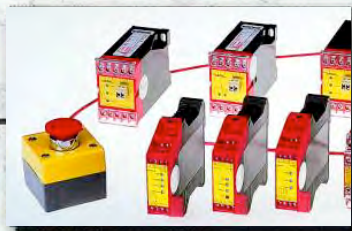




NORSTAT Inc.

Your source for
Machine Safety
and
Automation
Products



Get
Safe
Get
Automated

Signaling Technology



Norstat offers a wide variety of optical and audible signaling devices including modular stacklights, buzzers and beacons. These signaling devices are suitable for a wide variety of applications and incorporate many innovative features.

- *Stacklights and Signal Towers*
- *Optical and Audible Signaling Devices*
- *Beacons*
- *Buzzers*

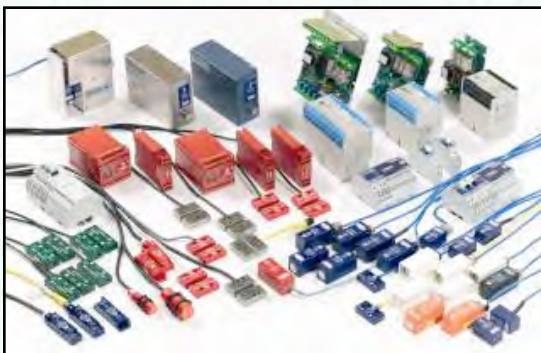
Safety Switches

With over 2500 items in our catalog, we can offer a switch for almost any application. These cost competitive switches are available in robust plastic or metal housings, come in a large variety of sizes and offer a protection rating of IP 65 or greater.

- *Mechanical Safety Interlock Switches*
- *Position and Limit Switches*
- *Foot Switches*
- *Micro Switches*



Non-Contact Safety Systems



Norstat offers a complete range of non-contact (Cat 2-4) safety switches and safety switch systems. These safety switch systems are truly one of the most reliable systems available today.

- *8 to 10 mm Switching Distance*
- *Suitable for Harsh Environments*
- *Category 2-4 System Performance*
- *Uniquely Coded Switches Available*

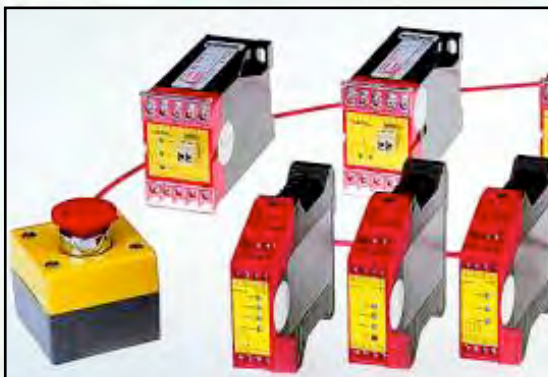
Connection Technology

Norstat offers a wide selection of *DIN 43650* connectors and molded cable assemblies for the electrical connections of hydraulic and pneumatic solenoid valves and sensors. Our molded cable assemblies are available with or without LED and suppression and are available in a variety of cable lengths.

- *DIN Connectors*
- *Molded Cable Assemblies*
- *Distribution Boxes: 4, 6, or 8 Position*
- *Cylinder Position Sensors*
- *M8/M12 Molded Versions*



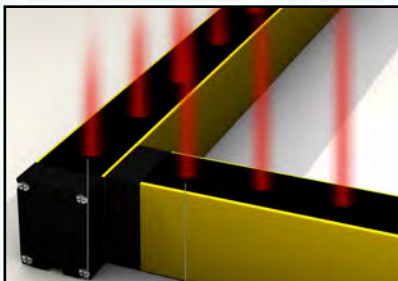
Safety Relays



Our extensive line of safety relays allow you to bring your machines up to the latest safety standards with ease. These units feature monitored, force guided contacts thereby eliminating the possibility of single component failure.

- *E-Stop Relays*
- *Safety Gate Relays*
- *Light Curtain Relays*
- *Two Hand Control Relay*
- *Time Delay Relays*

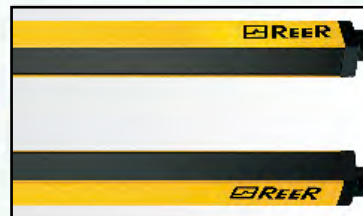
Safety Light Curtains: EOS



Type 2 & 4 safety light barriers for "point of operation" & "perimeter" guarding in a compact 28 x 30 mm profile.

- *Integrated Safety Functions*
- *M12 Connectors with Unshielded Connectors*
- *IP 67*
- *No Dead Zone*
- *EDM, Selectable Start/Restart*

Admiral



Type 4 safety light barriers with built-in control functions in a

- *Master/Slave Models*
- *Cable Lengths to 100 m*
- *2 Safety PNP Outputs*
- *ATEX, AS-i*
- *Long Range Up to 60 m*

Muting Light Curtains



Featuring a robust and integrated type 4 safety muting light barrier, *the Janus* includes integrated muting function and muting sensors.

- *Versatile, "Plug and Play"*
- *ML & MT with Built-In Muting Sensors*
- *Settings Integral via Main Connector*
- *Janus J, MI, ML, MT*
- *Long Range 40 mm Resolution up to 60 m*

MOSAIC

Norstat offers the new modular and configurable safety controller, *MOSAIC*, a device capable of monitoring many safety sensors and commands at the same time.

- *Configurable Safety Controller*
- *MSD Safety Designer Software*
- *Compact and Expandable to 72 I/O*



Your Safety Experts



STANDARDS /REGULATIONS :

What U.S. and European regulations will effect the global market place and what changes can you expect in the future?

RESPONSIBILITY : The changing marketplace has left end-users and OEM's with the responsibility to provide personnel with a safe work environment.

ANSI / OSHA : What are these organizations? What do they do and how do they effect safety in the industrial environment?

RISK ASSESSMENT : This term will be defined and guidelines will be given according to the U.S. and European standards. You will participate in an actual risk assessment.

APPLICATIONS : Applications will be discussed including guarding techniques, both soft and hard as well as their interface with the stop circuit.



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