Limit Switches

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Rugged Limit Switches for Peanuts

AutomationDirect Heavy-Duty Metal IEC Limit Switches

**ABM Series metal**

Heavy-duty 40 and 65mm body IEC limit switches feature rugged die-cast aluminum or fiberglass-reinforced plastic housings. Models with multiple conduit openings save time and money when interconnecting multiple limit switches.

- Universal design for compactness
- Single or multiple conduit openings
- Die-cast aluminum or fiberglass-reinforced plastic housings
- Levers are adjustable to any angle on the operating shaft
- Delrin roller levers and plungers
- Spline actuator shafts for very fine adjustment

**ABP Series plastic**

- Single or multiple conduit openings
- Delrin roller levers and plungers
- Spline actuator shafts for very fine adjustment
- 90-degree adjustable head
- Levers are adjustable to any angle on the operating shaft
- Two PG11 and one 1/2” NPT conduit entries

Starting from $21.00

Achieve AHP Series Plastic IEC Limit Switches with Remote Reset

Achieve AHP series plastic IEC limit switches feature a rugged 30mm body suitable for mounting in tight spaces and a latching contact that can be reset remotely via a 0.2 to 0.5 second 24 VDC signal.

- 90-degree adjustable head
- Lever are adjustable to any angle on the operating shaft
- Two PG11 and one 1/2” NPT conduit entries
- 2 N.C. snap-action contacts per unit
- Reinforced thermoplastic housing
- Wide variety of head actuators
- IP65 protection rating

Starting from $42.00

Schmersal 30 and 40mm IEC Limit Switches

Schmersal limit switches come in a variety of actuator heads to meet a wide range of sensing applications. These IEC style limit switches come in either zinc alloy or glass-fiber thermoplastic bodies. The snap-action contacts are available in a variety of contact configurations.

- 90-degree adjustable head, levers are adjustable to any angle on the operating shaft
- Die-cast zinc or double-insulated thermoplastic enclosure
- Fully assembled out of the box

Starting from $14.50

Eaton 39mm Metal NEMA Limit Switches

These rugged NEMA rated limit switches with 39mm wide bodies are rated for indoor and outdoor use; they can handle dripping, splashing, and washdown with corrosive or non-corrosive cleaning agents, water, oil, or coolant; occasional, prolonged submersion in water; and even remain operable when the switch enclosure is laden with ice or sleet.

- Contact patterns, footprint, and mounting hole layout similar or identical to leading brands
- Die-cast zinc housing for industrial applications
- NEMA ratings: 3, 3S, 4, 4X, 6, 6P, & 13
- IP67 ingress protection rating
- Push, wobble, or side-rotary heads available
- Heads adjust in 90-degree increments
- Levers (when present) are adjustable to any angle on the operating shaft
- Fully assembled out of the box
- L23 in NPT conduit opening
- SPDT and DPTD snap action configurations available

Starting from $143.00

Contact Blocks and Replacement Levers

Replacement contacts and levers are available for AutomationDirect IEC Limit switches.

- NO/NC, 2 N.C., and 2 NO contact types
- Snap and slow contact action
- Fixed stainless and rubber rollers for E52 limit switches
- Adjustable stainless and rubber rollers for E52 limit switches
- M20 x 1.5 fitting, 1/2” NPT adapter
- Snap-action with constant contact pressure up to the switching point
- Die-cast zinc or double-insulated thermoplastic enclosure
- Fully assembled out of the box

Starting from $4.50

For the latest prices, please check AutomationDirect.com
AutomationDirect Compact Limit Switches

AEM2G Series Metal
APE2G Series Plastic

AutomationDirect compact limit switches with durable metal or double-insulated plastic housings are epoxy resin-filled for an IP67 protection rating. Select models offer a 1-meter halogen-free cable designed for low toxicity and low smoke emissions in case of fire.

- 35mm body width
- Die-cast metal or double-insulated plastic housings
- 3-meter cable or M12 quick disconnect
- Connection exit from bottom or right
- 1 N.O. and 1 N.C. contact on all units
- Compact size with standard 25mm hole spacing
- Wide offering of head actuators
- Both snap-action (Z11) and slow-make/slow-break (X11) contacts available
- N.C. contacts are positive-opening operated unless otherwise noted

Achieve Compact Limit Switches

AEM2G Series Metal
APE2G Series Plastic

Achieve compact limit switches with durable metal or double-insulated plastic housings are epoxy resin-filled and are ideal for applications in tight spaces.

- 35mm body width
- Die-cast metal or double-insulated plastic housings
- 1-meter or 3-meter cable connection with bottom exit
- Connection exit from bottom or right
- 2 N.O. and 2 N.C. contact on all units
- Compact size with standard 25mm hole spacing
- Wide offering of head actuators
- Snap-action (Z11) contacts
- N.C. contacts are positive-opening operated unless otherwise noted
- IP67 protection rating

Schmersal Compact Limit Switches

PS116 Series

Schmersal compact limit switches are suitable for a variety of applications, their small size allowing them to easily be used in confined spaces.

- 31mm body width
- Zinc die-cast switch in a thermoplastic housing
- 2-meter cable or M12 quick disconnect
- Connection exit from bottom or right
- 3 or 5mm diameter flat head types
- N.O. or N.C. contacts (depending on model)
- 0.5 micron (µm) repeat accuracy
- 3 or 10mm stroke lengths
- 5 or 10mm diameter actuators
- IP66/67 protection rating
- 5 or 10mm diameter flat head types
- IP67 protection rating

IDEM Micro Limit Switches

IDEM high-precision 15A-rated micro switches are available in a variety of styles and actuator types.

- Plunger series models offer short and long pin, plunger, roller and cross roller plunger actuator types
- Lever series models offer lever, hinged lever, and roller lever actuator types
- Models with fixing nuts for through panel mounting
- 9.4mm body width
- Screw terminals for easy connection
- Wide range of operating conditions
- Optional terminal enclosure available
- 28.4mm (1”) mounting pattern
- N.O. or N.C. contacts (depending on model)
- 0.5 micron (µm) repeat accuracy
- Stainless steel construction
- No movement differential
- No temperature drift
- Stainless steel construction
- IP67 protection rating

Precision Limit Switches

Cost-effective, ultra-precise mechanical limit switches have a repeatability down to 10, 5, 3, and even 0.5 microns (µm) depending on the specific model. These limit switches are also some of the smallest switches/sensors available. Their tiny size allows them to be mounted in extremely tight locations.

Metrol High-Precision Touch Limit Switches

METROL high-precision touch limit switches enable extremely precise positioning in all types of equipment such as jigs, industrial robots, and machine tools.

- 8.10, and 19mm body diameters
- 3 or 10mm stroke lengths
- 0.5 micron (µm) repeat accuracy
- N.O. or N.C. contacts (depending on model)
- IP67 protection rating

Metrol High-Precision Tool Setter Limit Switches

METROL high-precision tool setter limit switches are used to determine the length, diameter, or position of a tool or workpiece. They measure tool wear and ensure that tools are positioned accurately, allowing for precise cuts and measurements.

- 5 or 10mm diameter flat head types
- 16 or 18.5mm diameter actuators
- 3 or 5mm stroke length
- 0.5 micron (µm) repeat accuracy
- N.C. contacts
- In 23x38x18mm, 27x38x18mm, or 41x45x25mm housing sizes
- Stainless steel construction
- IP67 protection rating

Metrol Precision Touch Limit Switches

Metrol limit switches provide precision, repeatability and a long service life. A variety of precision limit switches are available with actuators such as ball plungers, flat plungers, plungers with a surface radius and needle contact plungers. Select switches are available for special applications:

- Body diameter sizes from 4 to 16mm
- Sliding/angled touch sense depressions in tooling or other surfaces for indexing operations
- High-temperature series can be used in demanding environments such as in tooling and injection molding machines
- N.O. or N.C. contacts (depending on model)
- Low Contact Force switches detect workpieces prone to scratching or deformation, such as semiconductors and ceramics
- Vacuum switches are made of low outgas materials for wafer and mask detection applications in vacuum chambers and semiconductor manufacturing equipment
- Stainless steel construction

For the latest prices, please check AutomationDirect.com
Precision Limit Switches (continued)

Metrol Stopper Limit Switches
Metrol stopper limit switches incorporate a mechanical stop with a limit switch function and can be directly embedded in a limited mounting space to reduce the size of the machine.

- 10 or 11mm body diameters
- 0.3 or 0.5mm stroke lengths
- 10 micron (µm) repeat accuracy
- N.O. contacts
- Stainless steel construction
- IP67 protection rating

Metrol Stopper Bolt Limit Switches
Stopper bolt limit switches accomplish two tasks with one device: they withstand the impact force required to stop a target and provide an output signal. Stopper bolt models are available in straight bolt, hexagonal bolt, waterproof, and mini housings.

- 6, 8, or 10mm body diameters
- 0.7mm stroke length
- 5000N withstand load/impact resistance
- N.O. contacts
- Stainless steel construction
- IP67 protection rating

For the latest prices, please check AutomationDirect.com.