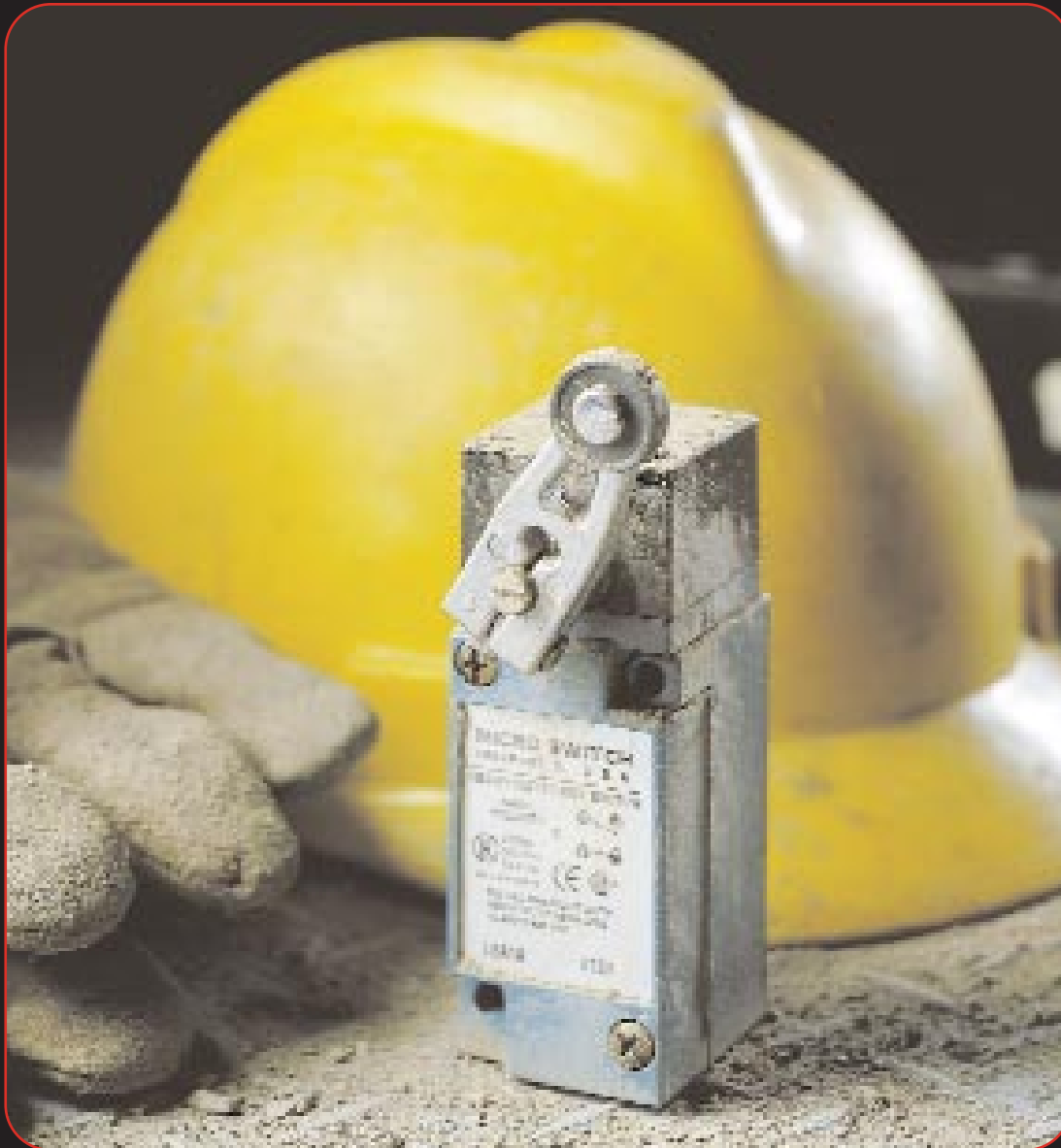


Sensing and Control

# Choose the original MICRO SWITCH



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Global Limits

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Heavy-Duty Limits

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Medium-Duty Limits

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Compact Limits

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Hazardous-Location Limits

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SZL-VL

GLS MIN-DIN

GLS DIN

Package Size	3.8(96,5)H, 1.51(39)W, 1.10(28)L	3.03(77)H, 1.201(30,5)W, 1.18(30)L	4.05(102,9)H, 1.65(42)W, 1.65(42)L
Actuators	Side rotary <ul style="list-style-type: none"> <li>• Fixed length roller lever</li> <li>• Adjustable rod</li> <li>• Adjustable roller lever</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> <li>• Cross roller</li> </ul> Wobble Wobble cat whisker	Side rotary Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul> Top roller lever Wobble	Side rotary <ul style="list-style-type: none"> <li>• Standard</li> <li>• Center neutral</li> <li>• Sequential</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul> Top roller lever Wobble
Special Features	Compact size. Flexible cable gland allows for fast and simple termination wiring. Rugged plastic/metal die-cast housing. Gold plated silver contacts.	Designed to IEC standard for world-wide acceptance. All NC contacts are positive opening. Field adjustable heads may be positioned at 90° increments. Side rotary models can be adjusted for CW and/or CCW actuation. Double insulated plastic housing available. 3 cable entry with metal housing available. SPDT configurations have bifurcated contacts.	Designed to IEC standard for world-wide acceptance. All NC contacts are positive opening. Metal die-cast housing. Field adjustable heads may be positioned at 90° increments. Side rotary models can be adjusted for CW and/or CCW actuation. Gold contacts available. SPDT configurations have bifurcated contacts. Plug in and non-plug in body styles.
Sealing	IEC: IP64 NEMA:	IP66 Metal housing: 1,4,12,13 Plastic housing: 1,12,13	IP 67 1,3,4,12,13
Temperature Range	Upper: 60°C (140°F) Lower: -20°C (-4°F)	85°C (185°F) -25°C (-13°F)	85°C (185°F) -25°C (-13°F)
Electrical Data	AC: 5A Resistive -125, 250 VAC DC: 0.4A Resistive -125 VDC	10A thermal: SPDT (NEMA A600), DPDT (NEMA A300) 10A thermal: SPDT and DPDT (NEMA Q300)	10A thermal: SPDT (NEMA A600), DPDT (NEMA A300) 10A thermal: SPDT and DPDT (NEMA Q300)
Circuitry	SPDT double break	SPDT snap action double break SPDT slow action double break BBM SPDT slow action double break MBB DPDT snap action double break	SPDT snap action double break SPDT slow action double break BBM SPDT slow action double break MBB DPDT snap action double break
Agency Approvals	UL, CE, UL certified for Canada	UL, CSA, and CE EN50047	UL, CSA, and CE EN50041
Typical Applications	Machine tool equipment Material handling Packaging machinery Electronic assembly equipment Gaming machines Injection mold machinery	Machine tool equipment Material handling Packaging machinery Textile machinery Construction machinery and equipment PLC interface	Machine tool equipment Material handling Packaging machinery Textile machinery Construction machinery and equipment PLC Interface
Price Compared to Other MICRO SWITCH Brand Switches (- to +)	●○○○○○○○○○○○○	○●○○○○○○○○○○○○	○○●○○○○○○○○○○

\*Refer to catalog for additional data.

## Imitations Never Live Up to the Real Thing.

We have been at the forefront of switching technology since we were the first to develop the precision snap-action switch more than 60 years ago. Ever since we introduced the MICRO SWITCH Brand Products in 1937, we have been recognized as the performance standard that all other switches are measured against. Using Six Sigma Plus methodology, we continue in that tradition by constantly improving the technology, cost-effectiveness, and delivery of these hardworking, versatile electro-mechanical switches. Over the years, many switch companies have tried to mimic our quality and reliability, but they just can't live up to the MICRO SWITCH Standard. Imitations never live up to the real thing.





**Standard HDLS**

**Fully Potted HDLS**

**Stainless Steel HDLS**

Package Size	SPDT: 4.2H,2.4W,1.6L, DPDT: 4.7H,2.4W,1.9L	SPDT: 4.2H,2.4W,1.6L, DPDT: 4.7H,2.4W,1.9L	4.9H, 2.4W, 1.9L
<b>Actuators</b>	Top rotary Side rotary (wide variety of levers) <ul style="list-style-type: none"> <li>• Momentary</li> <li>• Maintained</li> <li>• Momentary center neutral</li> <li>• Momentary sequential</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Adjustable</li> <li>• Roller</li> </ul> Side plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Adjustable</li> <li>• Roller</li> <li>• Maintained</li> </ul> Wobble	Top rotary Side rotary (wide variety of levers) <ul style="list-style-type: none"> <li>• Momentary</li> <li>• Maintained</li> <li>• Momentary center neutral</li> <li>• Momentary sequential</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Adjustable</li> <li>• Roller</li> </ul> Side plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Adjustable</li> <li>• Roller</li> <li>• Maintained</li> </ul> Wobble	Side rotary <ul style="list-style-type: none"> <li>• Momentary</li> <li>• Maintained</li> <li>• Momentary center neutral</li> <li>• Momentary sequential</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul> Side plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul>
<b>Special Features</b>	Rugged & dependable. Wide variety of field adjustable operating heads may be positioned at 90° increments. Prewired connector or preleaded cable versions available. Plug in and non-plug in body styles. Side rotary models can be adjusted for CW and/or CCW actuation. Internal ground screw. Fluorocarbon and low temp sealing available. Gold contacts available.	Suited for harsh-duty wash-down environments. Switch cavity is epoxy filled. Field adjustable heads may be positioned at 90° increments. Prewired connector or preleaded cable versions. Side rotary models can be adjusted for CW and/or CCW actuation. Internal ground screw. All fluorocarbon seals. Low temp sealing available. Gold contacts available. <b>Exceeds NEMA 6P.</b>	Suited for harsh-duty environments. All corrosion resistant type 300 series stainless steel construction. Field adjustable heads may be positioned at 90° increments. Preleaded and epoxy filled versions available. Side rotary models can be adjusted for CW and/or CCW actuation. Internal ground screw. All fluorocarbon seals. Low temp sealing available. Gold contacts available.
<b>Sealing NEMA/UL:</b>	1,3,4,4X,6,6P,12,13*	1,3,4,6,6P,12,13*	1,3,4,4X,6,6P,12,13
<b>Temperature Range</b>	Upper: 121°C(250°F)* Lower: -12°C(10°F)/-40°C(-40°F)	121°C (250°F) -12°C (10°F)/-40°C(-40°F)	121°C (250°F) -12°C (10°F)/-40°C(-40°F)
<b>Electrical Data</b>	AC: 10A thermal: SPDT (NEMA A600), DPDT (NEMA B600) DC: Refer to catalog for details	10A thermal: SPDT (NEMA A600), DPDT (NEMA B600) Refer to catalog for details	10A thermal: SPDT (NEMA A600), DPDT (NEMA B600) Refer to catalog for details
<b>Circuitry</b>	SPDT double break, DPDT double break	SPDT double break, DPDT double break	SPDT, DPDT double break
<b>Agency Approvals</b>	UL, CSA, CE	UL, CSA, CE	UL, CSA, CE
<b>Typical Applications</b>	Machine tool equipment Material handling Packaging machinery Presses Pulp and paper machinery Welding machinery PLC interface	Food and beverage machinery Conveying equipment Automotive machine tools and conveyors Pulp and paper equipment	Shipboards and dockside Power generating plants Caustic waste handling Mining Food and beverage Corrosive valve locations Electronic assembly
<b>Price Compared to Other MICRO SWITCH Brand Switches (- to +)</b>	○○○○●○○○○○	○○○○○●○○○○○	○○○○○○○○○○●

\*Refer to catalog for additional data.

## Product Breadth: The Right Product for Your Application.

Knowing which switch is perfect for your application can mean the difference between success and failure.

We offer a wide breadth of MICRO SWITCH products from simple, low-cost switches to determine presence on your typical assembly line to heavy-duty, explosion-proof, industrial-strength limit switches for a valve in a petroleum plant. With an extensive variety of body and head styles we can determine a solution for virtually any application.

But an extensive product line is only half the product selection story. Specifying a switch is more complicated than just finding a part. It's about finding a supplier that is committed to helping you find the appropriate solution. It's about finding a company that will answer your technical questions at the exact moment you need answers. Our technical expertise and international support network give you easy and almost immediate access to information that will help you select the right products and help you correct potentially damaging work stoppages.

Give us a call at 1-800-537-6945.





**BF**

**E6/V6**

**BAF1**

Package Size	2.7H, 1.2W, 2.9L	2.7H, 1.0W, 3.0L	3.2H, 1.3W, 4.0L
<b>Actuators</b>	Top plain plunger Lever actuated <ul style="list-style-type: none"> <li>• Rod</li> <li>• Roller</li> </ul> Wobble	Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> <li>• Cross roller</li> </ul> Maintained w/reset plunger <ul style="list-style-type: none"> <li>• Plain plunger</li> <li>• Roller plunger</li> <li>• Roller lever</li> </ul> Lever Actuated <ul style="list-style-type: none"> <li>• Roller</li> <li>• One-way roller</li> <li>• Manual</li> </ul> Wobble	Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul> Maintained w/reset plunger Lever actuated <ul style="list-style-type: none"> <li>• Roller</li> <li>• One-way roller</li> </ul> Manual Wobble
<b>Special Features</b>	Rugged plastic enclosure eliminates need for ground screw. Large internal cavity for easy wiring. Terminal screws with pressure plates allow for easy wiring before or after mounting.	Sealed or unsealed actuators. Rugged powder-coated housing resists chipping and corrosion. Momentary or maintained contacts. Side or flange mount. Replacement component parts available. Removable terminal enclosure for ease of wiring. Internal basic switch mechanism offers increased repeatability. Low temperature versions available (-40°F). Optional gold contacts. Internal ground screw.	Sealed for wash down applications. Rugged cast aluminum housing with 3-hole mounting. Momentary or maintained contacts. Right or left handed actuators. Cover plate is removed for ease of wiring and internal switch replacement without demounting the switch. Internal ground screw.
<b>Sealing</b>	NEMA 1,3,4,13	NEMA 1,3,4,12*	NEMA 1,3,4,13*
<b>Temperature Range</b>	Upper: 71°C (160°F) Lower: -32°C (-25°F)	Upper: 71°C (160°F) Lower: -32°C (-25°F)	Upper: 71°C (160°F) Lower: -32°C (-25°F)
<b>Electrical Data</b>	AC: 5A or 11A, 125 VAC  DC: Refer to catalog for details	SPDT: 15A - 125, 250, 480 VAC DPDT: 10A - 125, 250 VAC SPDT: 0.5A - 125VDC: 0.25A - 250VDC DPDT: 0.3A - 125VDC: 0.15A - 250VDC	SPDT: 20A - 125, 250, 480 VAC DPDT: 10A - 125, 250 VAC SPDT: 0.5A - 125VDC: 0.25A - 250VDC DPDT: 0.3A - 125VDC: 0.15A - 250VDC
<b>Circuitry</b>	SPDT	SPDT, DPDT	SPDT, DPDT
<b>Agency Approvals</b>	UL	UL, CSA, CE	UL, CSA
<b>Typical Applications</b>	Overhead cranes and hoists Surface transportation equipment Special machinery Agricultural equipment Earth moving equipment	Packaging equipment Special machinery Textile machinery Conveyors Construction machinery Farm equipment Printing trades machinery Overhead cranes and hoists	Packaging equipment Special machinery Farm machinery Conveyors Overhead cranes and hoists

Price Compared to Other MICRO SWITCH Brand Switches (- to +)



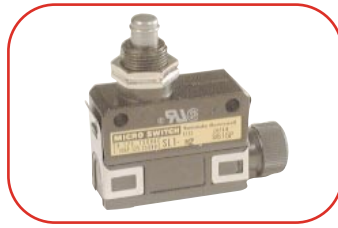
\*Refer to catalog for additional data.

## Our Promise to You: Delivered on-time.

Missed shipments mean downtime and extra costs. As a global supplier of the MICRO SWITCH Brand, we are committed to providing a smooth, uninterrupted flow of product to enhance your productivity, save you money, and save your skin. We can help you avert costly shortages of product due to inevitable fluctuations in your production. By embracing disciplines such as lean manufacturing and total supply chain management, we are able to boast on-time-to-promise deliveries up to 99.9% of the time. If it is important to you to get switches on time, choose Honeywell Sensing and Control. We make it one of our highest priorities.



914CE/924CE



SL1 Compact Limit



Compact Limits

Package Size	2.1H, .6W, 1.6L	1.27H, 1.7W, .7L	3.7H, 2.3W, 1.6L
Actuators	Side rotary Top plunger <ul style="list-style-type: none"> <li>• Plain               <ul style="list-style-type: none"> <li>• Bushing mount</li> <li>• Adjustable</li> <li>• Booted</li> </ul> </li> <li>• Roller               <ul style="list-style-type: none"> <li>• In-line</li> <li>• Cross                   <ul style="list-style-type: none"> <li>• Bushing mount</li> <li>• Booted</li> <li>• Ball bearing</li> </ul> </li> </ul> </li> </ul> Pushbutton Wobble	Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller               <ul style="list-style-type: none"> <li>• Cross-roller</li> <li>• Roller w/seal boot</li> <li>• Long roller</li> <li>• Long Cross-roller</li> </ul> </li> </ul> Roller arm	Side rotary <ul style="list-style-type: none"> <li>• Momentary</li> <li>• Maintained</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul> Side plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Roller</li> </ul> Wobble
Special Features	Compact size. Positive opening contacts available. Gold contacts available. Pre-leaded bottom and side exit cable available in 3' increments. Bottom or side exit micro-style connector. Wide variety of side-rotary actuators and replacement levers.	Compact size. Sealed and sensitive. Gold contacts available. Snap-in terminal cover makes mounting and wiring easy. Zinc diecast housing.	Worldwide industry standard size. Field adjustable heads may be positioned at 90° increments. Side rotary models can be adjusted for CW and/or CCW actuation. Levers are adjustable through 360° on shaft
Sealing	IEC: 924CE: IP66 std., IP67 w/boot seal NEMA: 1,3,4,6,6P,12,13*	IP67 3,4,13	1,3,4,6,13
Temperature Range	Upper: 70°C (158°F) Lower: 0°C (32°F)/-40°C (-40°F)*	70°C (158°F) -10°C (14°F)	71°C (160°F) -29°C (-20°F)
Electrical Data	AC: 5A - 125, 250 VAC* DC: Refer to catalog for details	5A - 125, 250 VAC Refer to catalog for details	10A - 120, 240, 480 VAC Refer to catalog for details
Circuitry (Make before break, break before make)	SPDT, SPSTNC, SPDTMBB, SPDTBBM	SPDT	SPDT double break, DPDT double break
Agency Approvals	UL, CSA, CE	UL, CSA*	UL, CSA*
Typical Applications	Processing equipment Textile machinery Machine tool Robotics Packaging equipment Off-road equipment Commercial laundry equipment Printing trades machinery Material handling	Robotics Light material handling Machine tool Automotive factory floor Electronic assembly equipment	Machine tools Conveyors Material handling Metal fabrication equipment Lift trucks
Price Compared to Other MICRO SWITCH Brand Switches (- to +)	○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ● ○ ○ ○ ○ ○ ○ ○ ○

\*Refer to catalog for additional data.



## The Quality & Reliability Story: Works right the first time and every-time

When you want a switch that is going to work the first time and every time even in the harshest environments, it makes sense to choose the original MICRO SWITCH Brand. A MICRO SWITCH product from Honeywell Sensing and Control is the reliable choice for those who want a sturdy, dependable switch regardless of environment.

You could purchase a switch from one of the companies that mimic our brand, but the imitations have limitations. They may promise the same quality, but their products do not have the same sealing and design integrity that an original MICRO SWITCH product can offer. Choose the name you know and trust: MICRO SWITCH.





EX



LSX/BX



CX

<b>Package Size</b>	2.6H, 3.2W, 3.7L	5.8H, 2.4W, 3.0L	Std. Housing: 4.0H, 6.6W, 4.0L Short Housing: 4.0H, 4.9W, 4.0L
<b>Actuators</b>	Side rotary (variety of levers) Top plunger Manual actuated	Top rotary Side rotary (wide variety of levers) <ul style="list-style-type: none"> <li>• Momentary</li> <li>• Maintained</li> <li>• Momentary center neutral</li> <li>• Momentary sequential</li> </ul> Top plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Adjustable</li> <li>• Roller</li> </ul> Side plunger <ul style="list-style-type: none"> <li>• Plain</li> <li>• Adjustable</li> <li>• Roller</li> </ul> Wobble	Side rotary (wide variety of levers)
<b>Special Features</b>	Suited for use in explosive gas/dust environments. The smallest UL-listed housing available for use in hazardous locations. Hermetic sealed switch elements. Mounts from four sides. Internal ground screw.	Weather sealed for outdoor use. Designed for explosive gas/dust environments. Interchangeable with HDLS (w/adaptor plate). Field adjustable heads may be positioned at 90° increments. Side rotary models can be adjusted for CW and/or CCW actuation. Internal ground screw. Fluorocarbon and low temp sealing.	Weather sealed for outdoor use. Mounts from front or four sides. Bronze housing available. Gold contacts available. Individual switch elements are field adjustable. Low temp. versions available. Hermetic sealed switch elements available.
<b>Sealing</b>	NEMA 1,7,9*	NEMA/UL 1,3,4,6,7,9,13*	NEMA/UL 1,3,4,4X,6,6P,7,9,13*
<b>Temperature Range</b>	Upper: 71°C (160°F) Lower: -40°C (-40°F)	121°C (250°F) -12°C (10°F)/-40°C(-40°F)	85°C (185°F) -25°C (-13°F)/-40°C(-40°F)
<b>Electrical Data</b>	AC: 1A to 20A: 125, 250, 480 VAC DC: Refer to catalog for details	10A thermal: SPDT (NEMA A600), DPDT (NEMA B600) Refer to catalog for details	1A to 20A: 125, 250, 480 VAC Refer to catalog for details
<b>Circuitry</b>	SPDT and DPDT	SPDT double break DPDT double break	Up to 4 switch elements with SPDT or DPDT*
<b>Agency Approvals</b>	UL, CSA	UL, CSA ATEX and CE on BX products	UL, CSA ATEX and CE on select CX products
<b>Typical Applications</b>	Control valves & actuators Petro-chemical plants Conveyors Material handling	Control valves & actuators Petro-chemical plants Grain handling Waste treatment Hazardous waste handling Power generating Paint facilities	Control valves & actuators Petro-chemical plants Grain handling Waste treatment Hazardous waste handling Power generating

Price Compared to Other MICRO SWITCH Brand Switches (- to +)



\*Refer to catalog for additional data.

## The Global Story: Anywhere in the world.

So, you have factories in Munich, Hong Kong, and California, and you need to supply them with the same switch? No problem. Honeywell Sensing and Control has a team of direct sales, local stocking distributors and representatives, and technical support specialists spread over six continents in 95 different countries. If you need more immediate information, our website [www.honeywell.com/sensing](http://www.honeywell.com/sensing) provides immediate 24-hour access to pertinent information. While there, use our interactive catalog to locate a product by selecting features that are important to you and your application. You can compare specific catalog listings and review on-line data sheets, dimensional drawings, and installation instructions. No matter where you are. No matter what you want. Honeywell Sensing and Control can help you find the solutions for all your application needs.

OIL FIELDS • DAMS • PAPER PROCESSING PLANTS • CONSTRUCTION SITES • CHEMICAL PROCESSING PLANTS

## Service and Support

### Local Sales Offices

Access to local Honeywell personnel  
Application and product assistance  
Assistance with locating a local distributor

### Authorized Distributor Referrals

Knowledge about products and applications  
Readily available inventory

### Customer Response Center (CRC)

Quality sensing and control solutions  
Responsive service from a team of professionals  
Local support for distributors and sales offices  
The answers you need—FAST!



We make perfect  
**sense.**<sup>™</sup>

## Additional Honeywell Advantages

### World Wide Web (www)

Online catalog and technical product information  
[www.honeywell.com/sensing](http://www.honeywell.com/sensing)  
E-mail: [info.sc@honeywell.com](mailto:info.sc@honeywell.com)

### Global Products and Services

International product approvals  
Worldwide affiliate sales offices!

### Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. *The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.*

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell website, it is up to the customer to determine the suitability of the product in the application.

For application assistance, current specifications, or name of the nearest Authorized Distributor, check the Honeywell website or call:

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44 0118 906 2650 United Kingdom

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**Honeywell**

Sensing and Control

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