



We make things **MOVE**

EdgeSwitch™ Solid-State Switch Series

Precise. Responsive. Durable.

Take the guesswork out of finding the right switch for your cylinder with Bimba's EdgeSwitch™ Solid State Switch Series. Designed to directly replace Reed Switches, EdgeSwitch™ features no moving parts for a longer, higher-performing lifespan. And every EdgeSwitch™ comes pre-tested for use with most Bimba actuators - giving you a one-stop source for everything actuation.

Benefits:

- < Improved Performance: EdgeSwitch™ switches only have one detection zone compared to reed switches, which have multiple detection zones, reducing false triggers each cycle
- < Improved magnetic sensing reliability compared to a reed switch
- < Higher repeatability compared to reed switches

- < Smaller operating window and hysteresis: EdgeSwitch™ triggers more precisely, leading to better edge detection, positioning, and more precise on/off timing than reed switches
- < The same 4mm c-slot body as Bimba reed switches for direct compatibility
- < 8.5mm or 17mm body for more switches on a single track
- < 90-degree wire: Won't impede the position of an adjacent switch, allowing for more switches in a single track

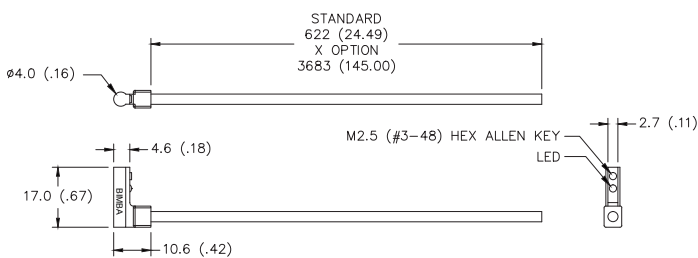
Pre-tested for use with:

- < Original Line Cylinders (-T option required)
- < Blue and Improved Flat-1 (MH Switch and -U or -S option required)
- < Pneu-Turn Rotary Actuators
- < Linear Thrusters

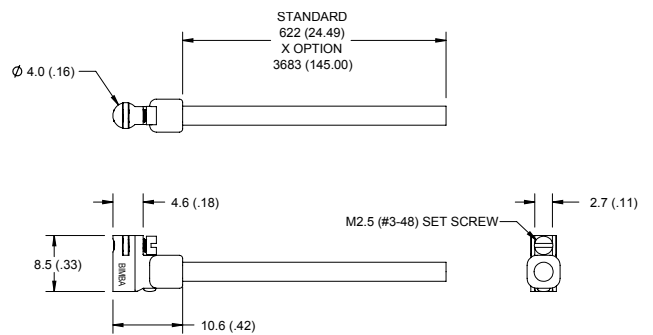
- < Extruded Flat
- < Twin Bore
- < Extruded Flat Lift Table
- < Narrow Profile Air Table
- < Low Profile Air Table
- < Twist Clamp
- < PneuMoment
- < Stopper Cylinders
- < ISO 6432

Part Number	Description
MDF	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, 24" Pigtail Leads
MDF-90	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, 24" Pigtail Leads, 90° version
MDFQ	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Connector
MDFQ-90	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Connector, 90° version
MDFQC	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Connector and 2m Mating Cable
MDFQC-90	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Connector and 2m Mating Cable, 90° version
MDFQCX	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Connector and 5m Mating Cable
MDFQCX-90	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Connector and 5m Mating Cable, 90° version
MDFX	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, 144" Pigtail Leads
MDFX-90	EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, 144" Pigtail Leads, 90° version
MHF-90	Mini EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, 24" Pigtail Leads, 90° version
MHF-90	Mini EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, 144" Pigtail Leads, 90° version
MHFQS-90	Mini EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Swivel Connector, 90° version
MHFQCS-90	Mini EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Swivel Connector and 2m Mating Cable, 90° version
MHFQCXS-90	Mini EdgeSwitch™ 2-wire, Solid-State Type, LED, 10-28VDC, 50mA, with M8 Male Swivel Connector and 5m Mating Cable, 90° version
MHC-90	Mini EdgeSwitch™ Sourcing Switch (PNP), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, 24" Pigtail Leads, 90° version
MHCX-90	Mini EdgeSwitch™ Sourcing Switch (PNP), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, 144" Pigtail Leads, 90° version
MHCQS-90	Mini EdgeSwitch™ Sourcing Switch (PNP), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, with M8 Male Swivel Connector, 90° version
MHCQCS-90	Mini EdgeSwitch™ Sourcing Switch (PNP), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, with M8 Male Swivel Connector and 2m Mating Cable, 90° version
MHCQCXS-90	Mini EdgeSwitch™ Sourcing Switch (PNP), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, with M8 Male Swivel Connector and 5m Mating Cable, 90° version
MHK-90	Mini EdgeSwitch™ Sinking Switch (NPN), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, 24" Pigtail Leads, 90° version
MHKX-90	Mini EdgeSwitch™ Sinking Switch (NPN), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, 144" Pigtail Leads, 90° version
MHKQS-90	Mini EdgeSwitch™ Sinking Switch (NPN), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, with M8 Male Swivel Connector, 90° version
MHKQCS-90	Mini EdgeSwitch™ Sinking Switch (NPN), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, with M8 Male Swivel Connector and 2m Mating Cable, 90° version
MHKQCXS-90	Mini EdgeSwitch™ Sinking Switch (NPN), 3-wire, Solid-State Type, LED, 5-28VDC, 50mA, with M8 Male Swivel Connector and 5m Mating Cable, 90° version

MDF-90:



MHF-90:



Check out bimba.com/miniedgeswitchvideo to learn more!

Switch Performance

	Benefits	End of Stroke	Mid-Stroke	Operating Window	Hysteresis	Repeatability
EdgeSwitch™ (MDF, MHF, MHC, MHK)	<ul style="list-style-type: none"> < Better performance < Smaller size < Solid state for longer life < Drop-in replacement for reed switch 			OW = 0.125"	H = 0.030"	R = ±0.005"
MR, MS, MSC, MSK	<ul style="list-style-type: none"> < Lower cost than EdgeSwitch < Solid state or reed switch available < Straight or 90° lead 			OW = 0.350"	H = 0.040"	R = ±0.010"
HSC, HSK	<ul style="list-style-type: none"> < Lower cost than EdgeSwitch < Solid state for longer life < Compatible with Flat-1® Cylinders 			OW = 0.290"	H = 0.040"	R = ±0.015"



End of stroke



Break point



Operating window (OW)



Make point



Direction of travel



Hysteresis (H)



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IMI Precision Engineering operates four global centres of technical excellence and a sales and service network in 75 countries, as well as manufacturing capability in the USA, Germany, China, UK, Switzerland, Czech Republic, Mexico and Brazil.

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