



# Model 5H Switch Machine

## Heavy-Duty Turnout Control Solution

The Model 5H Switch Machine is an electrically-operated switch and lock movement with lock rod, point detector rod and built-in contacts that check if the machine is over-and locked in both the normal and reverse positions.



**KB SIGNALING™**



# Model 5H Switch Machine

## Specifications

Application	Single switch, single-slip switch, double-slip switch, derail
Motor voltage	24-VDC or 110-VDC
Control scheme	4-wire control, 10 or 24Vdc control voltage
Operating temperature	-40°C to 70°C
Mounting requirements	Requires only two ties for mounting;
Thrust	2,500 lbs. (1,136.7 kg), meets requirements of AAR Load Curve 1457
Weight	1065 lbs. (484.1 kg)
Motor type	Series-wound DC motor, magnetic detent holds motor against vibration and stray electrical currents at end of stroke. Dynamic snubbing circuit prevents motor overrun at high speeds.
Operating time	3 seconds for 110 Volt machines, 8-10 seconds for 24 Volt machines
Operating current	12-14 Amps for 110 Volt machines, 18-20 Amps for 24 Volt machines
Contacts	Provided for lock rod, point detector rod, and over and locked in normal and reverse positions through contacts in the point detector. (Point detector contacts: 2 normal, 2 reverse, 2 motor control, 2 shunt contacts. Motor control contacts carry and break motor current directly.)
Throw bar stroke	6.0 Inches (15.2 cm)
Hand crank	Option for maintenance and emergency use; with automatic cutout contact and cut-out feature to protect operator
Frost protection	Optional 110 Volt heaters for motor, controller and contact compartments. The point detector contacts feature a long wipe to help prevent frost buildup on the contacts.

## Ordering Information

Model 5H Electric Switch Machines - Right-Hand Layouts				
Application	Lock Rod	Motor	Control	Part Number
Single Switch	RH Wide-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-011-33
Single Switch	RH Narrow-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-011-41
Moveable Point Frog	RH Wide-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-011-35
Single Switch	R/LH Wide-Notch Threaded End	110 Volt	4-wire, 10 or 24Vdc	54505-015-20
Single Switch	R/LH Narrow-Notch Spade End	110 Volt	4-wire, 10 or 24Vdc	54505-015-30
Moveable Point Frog	RH Wide-Notch Threaded End	110 Volt	4-wire, 10 or 24Vdc	54505-015-22
Model 5H Electric Switch Machine - Left-Hand Layouts				
Detector Rod	Lock Rod	Motor	Control	Part Number
Single Switch	LH Wide-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-011-34
Single Switch	LH Narrow-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-011-42
Moveable Point Frog	LH Wide-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-011-36
Single Switch	LH Narrow-Notch Threaded End	24 Volt	4-wire, 10 or 24Vdc	54505-015-21
Single Switch	LH Wide-Notch Threaded End	110 Volt	4-wire, 10 or 24Vdc	54505-015-31
Single Switch	LH Narrow-Notch Spade End	110 Volt	4-wire, 10 or 24Vdc	54505-015-48

**Contact your KB Signaling Business Development Manager**  
**Call 1-800-825-7090, or Email us at [aso.techsupport-kb@alstomgroup.com](mailto:aso.techsupport-kb@alstomgroup.com) for more information today.**

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