



**Honeywell Building Control Products  
Are Already Proven In More Than  
Three Million Buildings Worldwide**

# DIRECT COUPLED ACTUATORS QUICK SELECTION GUIDE



Spring Return,  
Low Torque

Precise, reliable performance. Lasting value. Ease of installation. Everything you look for in direct-coupled actuators hinges on quality. And quality engineering is what makes Honeywell's complete line of actuators the top performers in the industry. Our global engineering team designs and tests our direct-coupled actuators to exceed rigorous global standards — and to meet Honeywell's own demanding life testing.

But we don't stop there. Thanks to our continuous improvement process, Honeywell actuators are now easier than ever to install. You'll also benefit from consistent wiring regardless of signal type, common accessories and a simplified selection process.

Honeywell's complete line of building control products, including valves and actuators, are already proven in more than three million buildings worldwide. So when you need spring or non-spring return actuators for your damper and valve applications, specify Honeywell. We make precision easy.

## Improve Installation Time

- Self-centering shaft adapter provides mounting flexibility and greater clamping force.
- Common wiring among families for every signal saves installation time.

## Decrease Material Cost

- Detachable access cover allows direct wiring without a junction box.

## Reduce Inventory

- Signal mode switch adapts models to two-position, floating (tri-state), or modulating (proportional) applications.

## Increase Control and Accuracy

- More than 200 reposition steps for modulating models provide precise control.



Spring Return,  
High Torque

## EASY-TO-SELECT MODEL NUMBERS

### MS and MN Families

**MS 75 10 A 2 2 XX**

#### Fail Safe Mode

- **MS** Spring Return
- **MN** Non-Spring Return

#### Input Signal Type

- **41** Two-Position, 100-250 Vac
- **61** Floating, 24 Vac/dc
- **75** Modulating/Floating, 24 Vac/dc
- **81** Two-Position, 24 Vac/dc

#### Torque

- **03** Nm = 27 in-lb
- **05** Nm = 44 in-lb
- **10** Nm = 88 in-lb
- **20** Nm = 175 in-lb
- **34** Nm = 300 in-lb

#### System Controlled Numbers

#### Auxiliary Switches

- **0** No Internal Switches
- **2** Two Internal Switches

#### Feedback

- **1** No Feedback
- **2** Voltage Feedback

#### Application Type

- **A** Standard Model
- **H** Enhanced Model



Non-Spring Return,  
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### ML Family

**ML 61 61 B 2 XXX**

#### Fail Safe Mode

- **ML** Non-Spring Return

#### Input Signal Type

- **61** Floating, 24 Vac
- **71** Modulating, 24 Vac

#### Torque

- **61** (4 Nm) = 35 in-lb
- **74** (8 Nm) = 70 in-lb

#### System Controlled Numbers

#### Declutch

- **1** Standard
- **2** Includes Declutch Function

#### Feedback & Conduit

- **A** Feedback w/Accessory
- **B** Standard
- **C** Feedback w/Accessory and Cover w/Conduit Connections
- **D** Cover w/Conduit Connections



Non-Spring Return,  
High Torque

## SPRING RETURN

Order Specification Number	Approximate Area of Damper (4.5 lb-in/sq. ft.)	Running Time		Power Supply			Control Input/Output					Auxiliary Knob	
		Drive (seconds)	Spring Return (seconds)	24 Vac/dc	120-230 Vac	VA Rating (Running)	On/Off	0/2-10 Vdc, Floating	3 kOhm NTC, 3-Position	Feedback (0/2-10 Vdc)	Adj. Zero and Span	SPDT Auxiliary Switches	Internal Minimum Position Potentiometer
<b>S03 Series (3 Nm, 27 lb-in)</b>													
MS8103A1030	6	45	<25	•			•					0	
MS8103A1130	6	45	<25	•			•					1	
MS4103A1030	6	45	<25		•		•					0	
MS4103A1130	6	45	<25		•		•					1	
MS7503A2030	6	90	<25	•				•		•		0	
MS7503A2130	6	90	<25	•				•		•		1	
MS7403A2030	6	90	<25	•				•	•	•		0	•
<b>S05 Series (5 Nm, 44 lb-in)</b>													
MS8105A1030	10	45	<25	•			•					0	
MS8105A1130	10	45	<25	•			•					1	
MS4105A1030	10	45	<25		•		•					0	
MS4105A1130	10	45	<25		•		•					1	
MS7505A2030	10	90	<25	•				•		•		0	
MS7505A2130	10	90	<25	•				•		•		1	
MS7405A2030	10	90	<25	•				•	•	•		0	•
<b>S10 Series (10 Nm, 88 lb-in)</b>													
MS8110A1008	20	45	<25	•			•					0	
MS8110A1206	20	45	<25	•			•					2	
MS4110A1002	20	45	<25		•		•					0	
MS4110A1200	20	45	<25		•		•					2	
MS7510A2008	20	90	<25	•				•		•		0	
MS7510A2206	20	90	<25	•				•		•		2	
MS7510H2209	20	90	<25	•				•	•	•		2	
<b>S20 Series (20 Nm, 175 lb-in)</b>													
MS8120A1007	39	45	<25	•			•					0	
MS8120A1205	39	45	<25	•			•					2	
MS4120A1001	39	45	<25		•		•					0	
MS4120A1209	39	45	<25		•		•					2	
MS7520A2007	39	90	<25	•				•		•		0	
MS7520A2205	39	90	<25	•				•		•		2	
MS7520H2208	39	90	<25	•				•	•	•		2	

## NON-SPRING RETURN

Order Specification Number	Approximate Area of Damper (4.5 lb-in/sq. ft.)	Running Time	Power Supply		Control Input/Output					SPDT Auxiliary Switches	
			24 Vac/dc	24 Vac	VA Rating (Running)	On/Off, Floating	0/2-10 Vdc	2-10 Vdc	Feedback (0/2-10 Vdc)		
<b>N05 Series (5 Nm, 44 lb-in)</b>											
MN6105A1011	10	90	•			•					0
MN6105A1201	10	90	•			•					2
MN7505A2001	10	90	•						•		0
MN7505A2209	10	90	•						•		2
<b>N10 Series (10 Nm, 88 lb-in)</b>											
MN6110A1003	20	90	•			•					0
MN6110A1201	20	90	•			•					2
MN7510A2001	20	90	•			•		•		•	0
MN7510A2209	20	90	•			•		•		•	2
<b>N20 Series (20 Nm, 175 lb-in)</b>											
MN6120A1002	39	90	•			•					0
MN6120A1200	39	90	•			•					2
MN7220A2007	39	90	•					•		•	0
MN7220A2205	39	90	•					•		•	2
<b>N34 Series (34 Nm, 300 lb-in)</b>											
MN6134A1003	67	90	•			•					0
MN7234A2008	67	90	•					•			2
<b>ML6161/7161 (4 Nm, 35 lb-in)</b>											
ML6161A2009	8	90		•	1.8	•				w/ accessory	0
ML6161A2017	8	420		•	1.8	•				w/ accessory	0
ML6161A2025	8	180		•	1.8	•				w/ accessory	0
ML6161B2024	8	90		•	1.8	•					0
MS6161B2032	8	420		•	1.8	•					0
ML6161B2073	8	180		•	1.8	•					0
ML6161C2007	8	90		•	1.8	•				w/ accessory	0
ML6161D2006	8	90		•	1.8	•					0
MS7161A2008	8	90		•	5.4			•			0
<b>ML6174/7174 (8 Nm, 70 lb-in)</b>											
ML6174A2002	16	90		•	2.4	•				w/ accessory	0
ML6174A2010	16	180		•	2.4	•				w/ accessory	0
ML6174B2019	16	90		•	2.4	•					0
ML6174B2035	16	420		•	2.4	•					0
ML6174D2009	16	90		•	2.4	•					0
ML6174E2008	16	90		•	2.4	•					0
ML7174A2001	16	90		•	5.4	•					0
ML7174E2007	16	90		•	5.4	•					0

**Learn More**

For more information on the Honeywell actuators, call **1-800-466-3993** or visit **[beyondinnovation.honeywell.com](http://beyondinnovation.honeywell.com)**

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