

Actuator Options

Electro-Mechanical Actuators – Modulating

Forced convection (active) terminal units, i.e. FCU (Fan Coil Units) and active Chilled Beams are designed to be very responsive to changes in room temperature. Modulating actuators enable flow rate changes, and consequently heat output changes, to quickly match demand requirements, therefore, modulating actuators should be chosen for forced convection terminal units. Modulating actuators allow all intermediate flow rates between full flow and no flow.



Feedback

ACT1934FB is a Feedback actuator allowing modulating control with 0-10V positional feedback signal function.

The feedback signal can be used by an external monitoring system to compare with control signal in order to check for ensure system is functioning correctly.

Fail Safe

ACT1934FS is a Fail Safe actuator designed to protect the equipment and the system from damage, while enhancing overall efficiency.

In the event of a disruption to the power supply the actuator will drive either open or closed, powered by an internal super capacitor.

The failsafe actuator can be fully configured using the user-friendly configuration tool (available separately).

Failsafe models include 0-10V positional feedback signal function.

Application	Fig No.	Part No	Function	Voltage	Cable Length	IP Rating
Fan Coil Unit & Active Chilled Beams	ACT1934FS	HNH002993 (Open) HNH002994 (Closed)	Fail Safe Modulating Gap Detection (Open/ Closed)	24VAC/DC (0-10V Control Signal)	1.5m	IP54
	ACT1934FB	HNH002984	Feedback Modulating Gap Detection			
	ACT1932M	001932MA345	Modulating Gap Detection			

PICV Actuators

ACT1932M / ACT1934FB / ACT1934FS

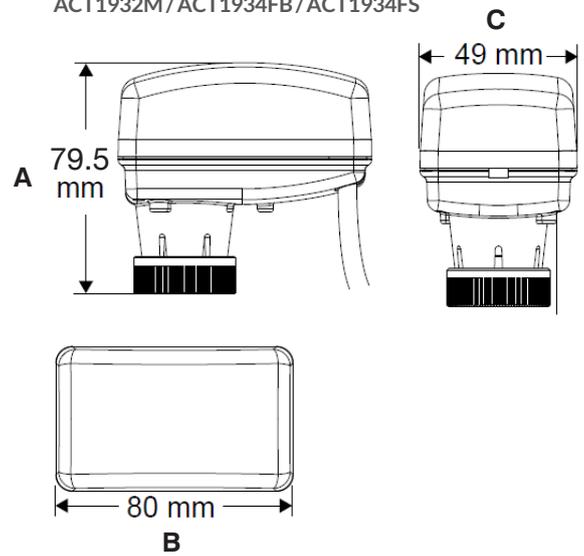
Features & Benefits

- **ACT1932M** is a modulating actuator providing proportional (equal percentage) control. This now includes a stem gap detection innovation, which reduces onsite adjustments and results in easier installation and commissioning. The gap detection feature matches the stroke length of the valve during calibration, ensuring the actuator conversion to equal percentage is accurate and gives the desired flow control across all valve settings for the operating differential pressure range.
- **ACT1934FB** is a Feedback actuator allowing proportional control with 0-10V with position feedback signal function.
- **ACT1934FS** is a Fail Safe actuator Designed to protect the equipment and the system from damage, while enhancing overall efficiency
- All feature an LED for the indication of the operating status.



Dimensional Drawing

ACT1932M / ACT1934FB / ACT1934FS



Materials

Fig No.	Cable Length
Cover	ABS + PC
Yoke	PA66 - Glass Mineral filled (30% total)
Thread Nut	Brass CuZn40Pb2

Dimensions & Weights

Fig No.	Cable Length	A (mm)	B (mm)	C (mm)	Weight (kg)
ACT1932M ACT1934FB ACT1934FS	1.5m	79.5	80	49	0.2

Technical Specification

Actuator Type	Power Supply	Control Signal	Configurations	Control Type	Nominal Force	Stroke Length	Running Time	Protection Class	Connections	Calibration
ACT1932M ACT1934FB ACT1934FS	24VAC/ DC	0 - 10V DC 0 - 5V DC 2 - 10V DC 4 - 20mA	Direct or Reverse acting	Proportional	140N	6.3mm max (mechanical)	8 sec/mm	IP54	Threaded nut M30 x 1.5	Self Calibrating



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