

ED-IG

In-ground low energy/power operated pedestrian operator



Operator Types and Configurations

- In-ground, fully concealed mounting
- Single or paired swing door applications
- Interior and exterior use

Description

The ED-IG in-ground swing door operator is designed for applications requiring powerful door automation while maintaining a fully concealed installation. Mounted entirely below the finished floor, the ED-IG preserves architectural aesthetics while delivering reliable performance for heavy and exterior swing doors.

The ED-IG operator can be configured as a low energy operator (ANSI A156.19) or as a power operated pedestrian door (ANSI A156.10) with required additional safety equipment. Intelligent control logic provides smooth motion, controlled closing, and compensation for wind load and pressure differentials. The ED-IG supports single and paired swing doors and integrates with electrified hardware and access control systems.

Standards of compliance

The ED-IG operator can be configured to meet:

- ANSI/BHMA A156.19 – Low Energy Power Operated Doors
- ANSI/BHMA A156.10 - Full Power Pedestrian Operated Doors
- UL 325/CUL
- NEMA 4 Water Resistant Enclosure
- ADA requirements (when properly specified and installed)

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Low energy power operated door

A door with a power mechanism that opens the door upon receipt of a knowing act activating signal, does not generate more kinetic energy than specified in ANSI A156.19, and includes provisions to reduce the chance of user injury or entrapment. In an A156.19 application, this is achieved utilizing the following design factors:

- Reduced dynamic door panel contact forces

- Reduced static door panel contact forces
- Time delays
- Low opening and closing speeds
- Force limitations
- Signage

Power operated pedestrian door (Full Power or Full Energy)

A door with a power mechanism that opens the door upon receipt of a signal from an activating device or sensor, does not generate more kinetic energy than specified in ANSI A156.10, and includes provisions to reduce the chance of user injury or entrapment. In an A156.10 application, this is achieved utilizing specific variants of the following design factors based on the type of door opening and traffic pattern:

- Guide rails
- Activation sensors
- Presence sensors
- Control Mats
- Safety Zones
- Time Delays
- Closing speed
- Closing Force

Configuration	
Mounting box dimensions	35-1/2" x 5-7/8" x 4-7/8"
Operator weight	26.5 lb
Internal power supply available for accessories	24 volts DC +/- 5% 1.5 Amps
Maximum door opening angle	110° (door stop recommended)
Maximum wire size	16 AWG
Maximum door weight* Based on prevailing conditions at the opening.	600 lb at maximum door width of 48" Low Energy [ANSI A156.19] 320 lb at maximum door width of 48" Full Power [ANSI A156.10]
Door width	Minimum 28" Maximum 48"
Door width for fire protection	28" to 55"
Spindle extensions	1/2" (20 mm) 3/4" (30 mm) 1" (60 mm)
Threshold options	ED-IG Terrazzo Pan - 5/8"x 8"x 36" - Center or Offset ED-IG Carpet Pan - 1/2"x 8"x 36" - Center or Offset

Required operating conditions	
Ambient temperature	5°F – 122°F
Power supply	115 volts AC +/- 10%, 50/60 Hz Maximum 6.6 Amps, (SELV)
Branch circuit protection (provided by others)	15 Amps maximum, dedicated branch circuit
Protection class	NEMA 4
Power wiring:black, white, bare copper (ground)	12 AWG
Operating noise	Maximum 50 db(A)

Inputs			
Activation inputs	X4*	Interior, exterior	Normally open contact
Safety sensors	X5	Swing, approach sides, normally closed contact	
Night/bank (intercom system)	X10 57, 57a	8 to 24 volts DC/volts AC + 5%	
Night/bank (key switch)	X1 35, 3	d2 parameter	Configure for Normally Open or Normally Closed
Deactivation of drive function	X6 4, 4a	d1 parameter	Configure for Normally Open or Normally Closed

Outputs			
Door status	X7 97, 98, 99	Sr parameter Door closed Door open Door closed, locked	Common Normally Open Normally Closed

Operating specifications		
Automatic closing torque, lbf-ft	Minimum 14.8 lb f	Maximum 110.6 lb f
Manual closing torque, lbf-ft	Minimum 9.6 lb f	Maximum 27.3 lb f
Maximum opening speed, degrees per second ¹	60 °/s	
Maximum closing speed, degrees per second ¹	60 °/s	

Door closer modes	
Automatic mode	Designed for automatic access following pulse generation by a motion detector or pushbutton.
Manual mode	Designed for doors primarily accessed manually.
Power assist	Available only in door closer mode (hd=1), manual opening. Drive support is automatically adjusted to operator size.

Integrated functions		
Hold open time		
Automatic opening	dd parameter	0 to 30 seconds
Night/bank	dn parameter	0 to 30 seconds
Manual opening	do parameter	0 to 30 seconds
Door blocking behavior	hd parameter	Automatic, manual door modes
Electric strike delayed opening for locking mechanism	Ud parameter	0 to 4 seconds
Locking device feedback	X3 43, 3	Motor lock
Wind load control, maximum	Fo, Fc parameters	33.7 lb f 150 N
Voltage independent braking circuit	Adjustable with potentiometer	
LED status indicators Service manual	Green Red Yellow	24 Vdc power Error codes Service interval
Program & Exit Only switches	Auto, Close, Open, Exit Only; Off, On	
User interface	4-button keypad, 2-digit display	
Slot for dormakaba upgrade cards	Extension of range of functions	
TMP, temperature management program Service manual	Overload protection	
IDC, initial drive control	Driving phase optimization	
Cycle counter	CC parameter	0 to 1,000,000
Power assist function	hA, hF, hS parameters	Drive support for manual opening door
Push & go function	PG parameter	Auto opening of door at 4° open

NOTES
¹ Speeds automatically limited depending on door weight, set during learn cycle.
 *Prevailing conditions at opening must be considered.

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Any questions? We would be happy to advise you.
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