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DKS 9245 Slide Gate Operator



PRODUCT REFERENCE GUIDE

Industrial Operators

Industrial Gate Operators

6550 series and 9200 series operators are designed to operate vehicular sliding and swinging gates used in Limited (Class III) and Restricted (Class IV) industrial applications only. These operators must never be used in Residential (Class I) or Commercial (Class II) applications, or in any application where the gate is operated by the General Public.

These operators must be installed with external entrapment prevention devices, Type B1 (non-contact) or Type B2 (contact), or a combination of both to ensure all entrapment hazard areas are protected. 9200 Series operators require a minimum of one (1) Type B1 AND one (1) Type B2 in EACH direction of travel. Refer to the Installation Manual for important safety information.

Minimum Gate Length

Most 9200 series operators have variable speed capability which allows the user to adjust the speed of the gate. On most operators, the speed can be set for speeds up to 2 Ft/sec., and on certain models the gate speed can be set up to 4 Ft/sec. When using these higher speeds, there is a time factor to consider during the start-up and the slow-down of the gate. For this reason, you will see a minimum gate length on operators design to move a gate at higher speeds.

UL 325 – February 2023

Requirements mandated by the safety standard (UL 325) that DKS gate operators are listed to require that photo-beams and contact edges used for entrapment protection must be monitored. Entrapment protection must be provided for the gate system where the risk of entrapment exists. The gate operator will not run without one or more external entrapment protection devices installed in each direction of travel. Check the gate operator installation manual for a list of external entrapment protection devices that can be used with DKS gate operator products.

The August 2018 update to the safety standard requires that a minimum of two independent means of entrapment protection must be provided, in each direction of travel, where the risk of entrapment exists. The actual number of external devices required is dependent on the gate system layout and the number of entrapment areas that will need to be protected. Installers will have to identify all potential areas where the

risk of entrapment exists and how best to protect those areas. For example, some gates may require two (or more) external devices in each direction of travel to protect all potential areas of entrapment. 9500 Series operators require a minimum of one (1) Type B1 AND one (1) Type B2 in EACH direction of travel.

There is an exception for swing gates and vertical lift gates regarding the minimum of two entrapment protection devices in each direction of travel. For example, if on a swing gate system there is no potential for entrapment in the opening direction, then only the close direction will require a minimum of two means of entrapment protection. Installers will have to determine if any entrapment hazards exist in the opening direction, and if so, then those areas will have to be protected with external devices. Vertical lift gates require two means of entrapment protection in the down cycle but will only require one means of entrapment protection in the up cycle. Model 1175 is considered to be a vertical lift gate operator for entrapment protection means requirements.

Barrier gate operators that are installed in such a way that the barrier arm does not come closer than 16 inches to a rigid object are not required to protect against entrapment. The table below shows the minimum entrapment protection requirements for each type of gate operator in the scope of the UL 325 Standard for Safety.

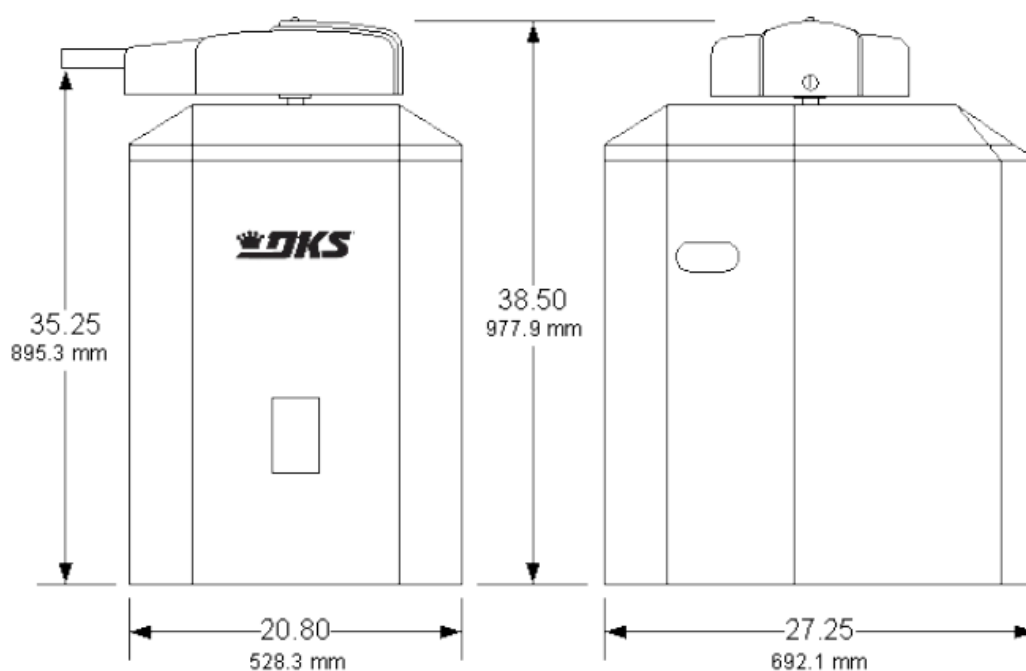
	Opening	Closing
Horizontal Slide Gate	2	2
Horizontal Swing Gate	2*	2*
Vertical Pivot Gate	2	2
Vertical Lift gate	1	2
Horizontal Bifold Gate	2	2

For a horizontal swing gate operator, at least two independent entrapment protection means are required in each direction of travel. Except, if there is no entrapment zone in one direction of travel, only one means of entrapment protection is required in that direction of travel; however, the other direction must have two independent entrapment protection means.

6550 Swing Gate Operators

6550

- Adjustable Magnetic Limits
- Type A inherent reverse system
- Plug-in Loop Detector Ports
- Gate Tracker Data Output
- Built-in power and reset switches
- 14 ga. Galvanized steel cover
- Galvanized steel frame
- Opens gate 90° in approximately 16 sec.
- Magnetic lock output
- Overlap feature for bi-parting gates



Model	Maximum Gate Weight	Maximum Gate Length	Mount	Class of Operation ¹	Voltage ²	HP	Power Outlets	Maximum Cycles / Day	Loop Ports ²	Adjustable Clutch
6550	2000 Lbs 907 KG	25 Ft. 7.62 m	Pad	III, IV	115 208 230 460 575 VAC	1	2	Continuous	2	No

1. III = Limited Access; IV = Restricted Access
2. High voltage kit (P/N 2600-266) required for 208 Volt and higher.
3. Plug-in loop detector ports; open and reverse. Door King plug-in loop detectors only.

Operators Fixed Speed

- 6550-380 Primary 1 HP
- 6550-384 Secondary 1 HP
- Secondary operator includes 50 feet (15.2 m) of interconnection cable.

High Voltage Kit

2600-266 Note 1

1. See Section A1, page 29.

Allows the operator to be powered from 208, 230, 460 or 575 VAC source voltage. In dual gate applications, only one (1) kit is required. Not available on 6555-081 operator.

2. Step 2: Choose Entrapment Protection (required) Devices

Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see pages 46 – 47.

Operator will not run without entrapment protection device(s) connected to the controller board. See installation manual for more information.

Loops and Loop Detectors

See page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

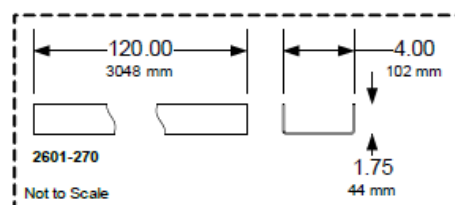
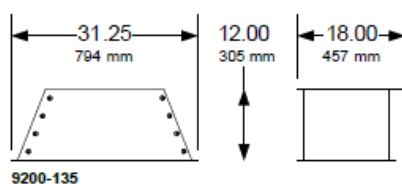
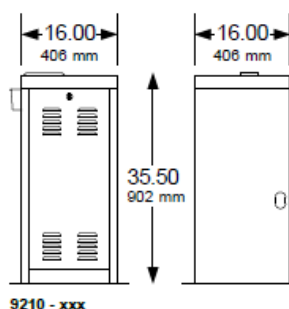
Backup Power Inverters

- 1000-083 1000-Watt, Pure Sine Wave Note 1
- 1000-045 Inverter Post Mount Kit..... Note 1
- See Section A1 page 50.

9210 Slide Gate Operator

9210

- Adjustable Limits
- Plug-in Loop Detector Ports
- Built-in power and reset switches
- Two 115 VAC convenience outlets
- Partial open / anti-tailgate feature
- 30:1 Gear Reducer Drive Train
- Fixed Speed
- 20-Feet (6m) #50 / #60 Chain
- Gate tracker data output
- Selectable stop/ reverse function



Model	Chain	Speed Fixed	Maximum Gate Weight	Maximum Gate Length	Minimum Gate Length	Mount	Class of Operation 1	Voltage VAC	HP	Power Outlets	Loop Ports 2
9210	#50	1 Ft/sec.	2000 Lbs3907 Kg	100 Ft30m	10 Ft3m	Pedestal3	III, IV	115208, 230, 460	1	2	2
	#60	3m/sec	3000 Lbs31360 Kg								

1. III = Limited Access; IV = Restricted Access
2. Plug-in loop detector ports; open and reverse. Door King plug-in loop detectors only.
3. . Use of 2601-270 chain tray requires 9200-135 pedestal.

Operators w/#50 Chain

- 9210-380 1 HP, 115V (9.7A)
- 9210-382 1 HP, 208V 1Ø (5.0A)
- 9210-384 1 HP, 230V 1Ø (4.9A)
- 9210-386 1 HP, 208V 3Ø (3.4A)
- 9210-388 1 HP, 230V 3Ø (3.3A)
- 9210-390 1 HP, 460V 3Ø (1.7A)

Operators w/#60 Chain

- 9210-381 1 HP, 115V (9.7A)
- 9210-383 1 HP, 208V 1Ø (5.0A)
- 9210-385 1 HP, 230V 1Ø (4.9A)
- 9210-387 1 HP, 208V 3Ø (3.4A)
- 9210-389 1 HP, 230V 3Ø (3.3A)

- 9210-391 1 HP, 460V 3Ø (1.7A)

Choose Entrapment Protection (required) Devices

Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see Section A1, pages 46-47.

Operator will not run without external entrapment protection devices connected to the controller board. Minimum of two (one in each direction of travel) is required. See installation manual for more information.

Loops and Loop Detectors

See Section A1, page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

Accessories

- 9200-135 Mounting Pedestal
- 2601-270 Chain Tray Kit 10 Ft (3m)¹
- 1601-195 Heater Kit 120 VAC²
- 1601-197 Heater Kit 208/230 VAC² 1
- 601-198 Heater Kit 460 VAC²
 1. 9200-135 required if chain tray is used.
 2. Use if temperature routinely falls below 10°F (-12°C).

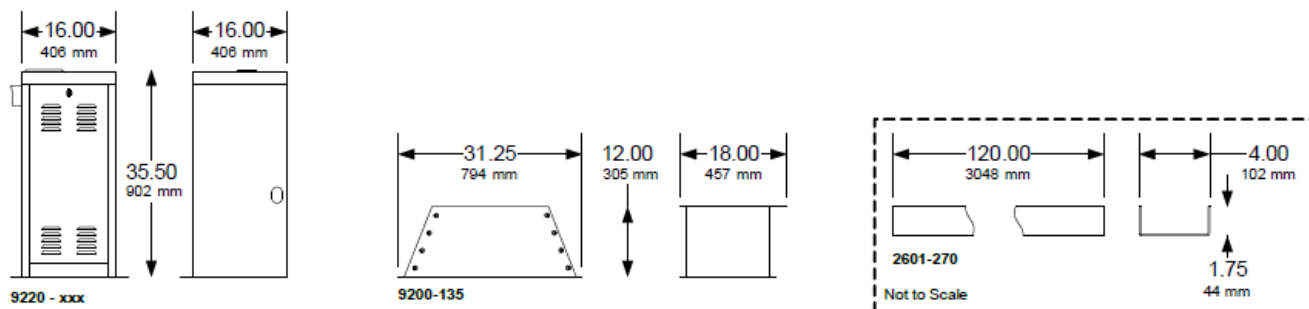
Chain

- 2600-485 #50 Chain, 20-Ft (6 m)
- 2600-448 #60 Chain, 20-Ft (6 m)

9220

- Adjustable Limits
- Plug-in Loop Detector Ports
- Built-in power and reset switches
- Two 115 VAC convenience outlets
- Partial open / anti-tailgate feature

- 30:1 Gear Reducer Drive Train
- Variable Speed
- 20-Feet (6m) #60 Chain
- Gate tracker data output
- Selectable stop/ reverse function



Model	Chain	Speed Variable	Maximum Gate Weight	Maximum Gate Length	Minimum Gate Length	Mount	Class of Operation 1	Voltage VAC	HP	Power Outlets	Loop Ports 2
9220	#60	1-2 Ft/sec. c.3-6m/sec	2000 Lbs 3907 Kg	100 Ft 30m	20 Ft 6m	Pad or Pedestal ³	III, IV	208, 230, 460	2	2	2

1. III = Limited Access; IV = Restricted Access
2. Plug-in loop detector ports; open and reverse. DoorKing plug-in loop detectors only.
3. Requires 9200-135 pedestal.

Operators

- 9220-381 2 HP, 208V 1Ø (11.7A)
- 9220-383 2 HP, 230V 1Ø (11.5A)
- 9220-385 2 HP, 208V 3Ø (6.6A)
- 9220-387 2 HP, 230V 3Ø (6.2A)

- 9220-389 2 HP, 460V 3Ø (3.1A)

Choose Entrapment Protection (required) Devices

- Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see Section A1, pages 46-47.
- Operator will not run without external entrapment protection devices connected to the controller board. Minimum of two (one in each direction of travel) is required. See installation manual for more information.

Loops and Loop Detectors

See Section A1, page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

Accessories

- 9200-135 Mounting Pedestal
- 2601-270 Chain Tray Kit 10 Ft (3m)¹
- 1601-197 Heater Kit 208/230 VAC²
- 1601-198 Heater Kit 480 VAC²
 1. 9200-135 required if chain tray is used.
 2. Use if temperature routinely falls below 10°F (-12°C).

Chain

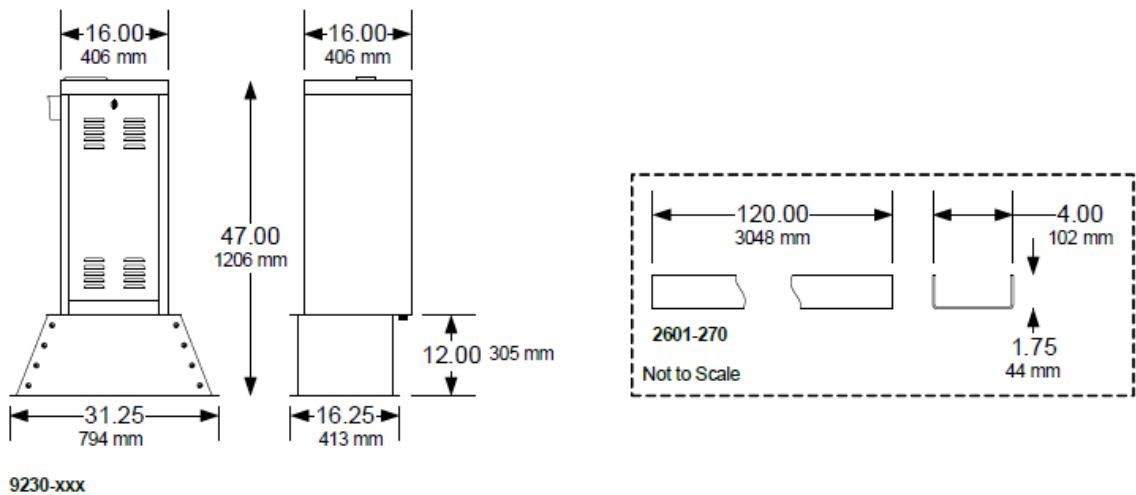
- 2600-448 #60 Chain, 20-Ft (6 m)

9230 Slide Gate Operator

9230

- Adjustable Limits
- Plug-in Loop Detector Ports
- Built-in power and reset switches

- Two 115 VAC convenience outlets
- Partial open / anti-tailgate feature
- 30:1 Gear Reducer Drive Train
- Variable Speed
- 20-Feet (6m) #60 Chain
- Gate tracker data output
- Selectable stop/ reverse function



Model	Chain	Speed Variable	Maximum Gate Weight	Maximum Gate Length	Minimum Gate Length	Mount	Class of Operation 1	Voltage VAC	HP	Power Outlets	Loop Ports 2
9230	#60	1-2 Ft/sec. 3-.6 m/sec	5000 Lbs 2267 Kg	100 Ft 30m	20 Ft 6m	Pedestal 3	III, IV	208, 230, 460	3	2	2

1. III = Limited Access; IV = Restricted Access
2. Plug-in loop detector ports; open and reverse. DoorKing plug-in loop detectors only.
3. 9200-135 pedestal included.

Operators

- 9230-380 3 HP, 208V 3Ø (9.8A)
- 9230-381 3 HP, 230V 3Ø (9.6A)
- 9230-382 3 HP, 460V 3Ø (4.9A)

Choose Entrapment Protection (required) Devices

Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see Section A1, pages 46-47.

Operator will not run without external entrapment protection devices connected to the controller board. Minimum of two (one in each direction of travel) is required. See installation manual for more information.

Loops and Loop Detectors

See Section A1, page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

Maximum Security Slide Gate Operator

Accessories

- 2601-270 Chain Tray Kit 10 Ft (3m)
- 1601-197 Heater Kit 208/230 VAC1
- 1601-198 Heater Kit 480 VAC1
 1. Use if temperature routinely falls below 10°F (-12°C).

Chain

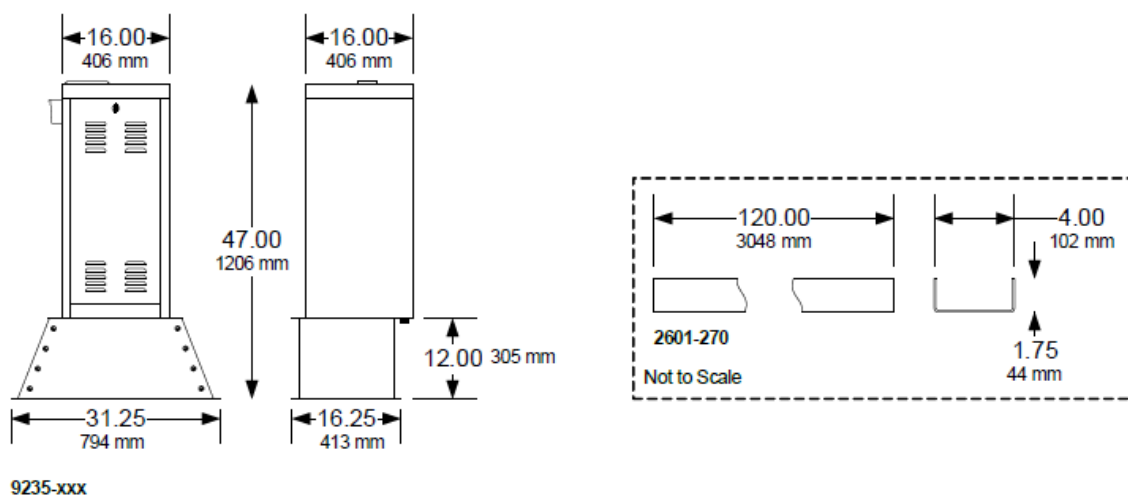
- 2600-448 #60 Chain, 20-Ft (6 m)

9235 Slide Gate Operator

9235

- Adjustable Limits
- Plug-in Loop Detector Ports

- Built-in power and reset switches
- Two 115 VAC convenience outlets
- Partial open / anti-tailgate feature
- 10:1 Gear Reducer Drive Train
- Electric Brake
- Variable Speed/High Speed
- 20-Feet (6m) #60 Chain
- Gate tracker data output
- Selectable stop/ reverse function



Model	Chain	Speed Variable	Maximum Gate Weight	Maximum Gate Length	Minimum Gate Length	Mount	Class of Operation 1	Voltage VAC	HP	Power Outlets	Loop Ports 2
9235	#60	1-4 Ft/sec. 3-1.2 m/sec	3000 Lbs 1360 Kg	100 Ft 30m	30 Ft 9m	Pedestal	III, IV	208, 230, 460	3	2	2

1. III = Limited Access; IV = Restricted Access

2. Plug-in loop detector ports; open and reverse. DoorKing plug-in loop detectors only.

3. 9200-135 pedestal included.

9235 Slide Gate Operator

Operators

- 9235-380 3 HP, 208V 3Ø (12.8A)
- 9235-381 3 HP, 230V 3Ø (12.6A)
- 9235-382 3 HP, 460V 3Ø (6.3A)

Choose Entrapment Protection (required) Devices

Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see Section A1, pages 46-47.

Operator will not run without external entrapment protection devices connected to the controller board. Minimum of two (one in each direction of travel) is required. See installation manual for more information.

Loops and Loop Detectors

See Section A1, page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

Accessories

- 2601-270 Chain Tray Kit 10 Ft (3m)
- 1601-197 Heater Kit 208/230 VAC1
- 1601-198 Heater Kit 480 VAC1
 1. Use if temperature routinely falls below 10°F (-12°C).

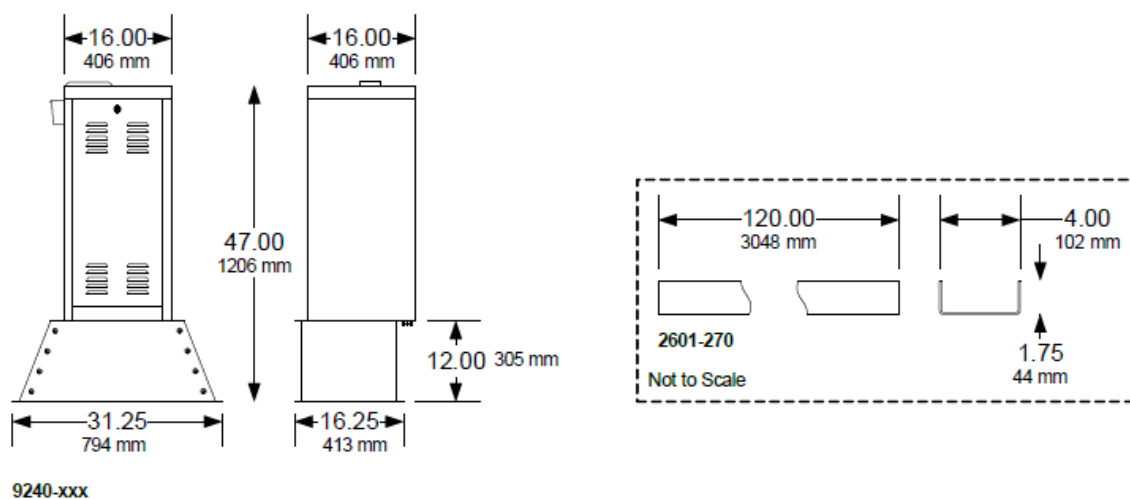
Chain

- 2600-448 #60 Chain, 20-Ft (6 m)

9240 Slide Gate Operator

9240

- Adjustable Limits
- Plug-in Loop Detector Ports
- Built-in power and reset switches
- Two 115 VAC convenience outlets
- Partial open / anti-tailgate feature
- 30:1 Gear Reducer Drive Train
- Variable Speed
- 20-Feet (6m) #80 Chain
- Gate tracker data output
- Selectable stop/ reverse function



Model	Chain	Speed Variable	Maximum Gate Weight	Maximum Gate Length	Minimum Gate Length	Mount	Class of Operation 1	Voltage VAC	HP	Power Outlets	Loop Ports 2
9240	#80	1-2 Ft/sec. 3-.6 m/sec	10,000 Lbs 336 Kg	100 Ft 30m	25 Ft 7.6m	Pedestal 3	III, IV	208, 230, 460	3	2	2

1. III = Limited Access; IV = Restricted Access

2. Plug-in loop detector ports; open and reverse. DoorKing plug-in loop detectors only.

3. 9200-135 pedestal included.

Operators

- 9240-380 3 HP, 208V 3Ø (12.8A)
- 9240-381 3 HP, 230V 3Ø (12.6A)
- 9240-382 3 HP, 460V 3Ø (6.3A)

Choose Entrapment Protection (required) Devices

Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see Section A1, pages 46-47.

Operator will not run without external entrapment protection devices connected to the controller board. Minimum of two (one in each direction of travel) is required. See installation manual for more information.

Loops and Loop Detectors

See Section A1, page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

Accessories

- 2601-270 Chain Tray Kit 10 Ft (3m)
- 1601-197 Heater Kit 208/230 VAC1
- 1601-198 Heater Kit 480 VAC1
 1. Use if temperature routinely falls below 10°F (-12°C).
 2. PRODUCT REFERENCE GUIDE
 - Industrial Operators
 - 9245 Slide Gate Operator

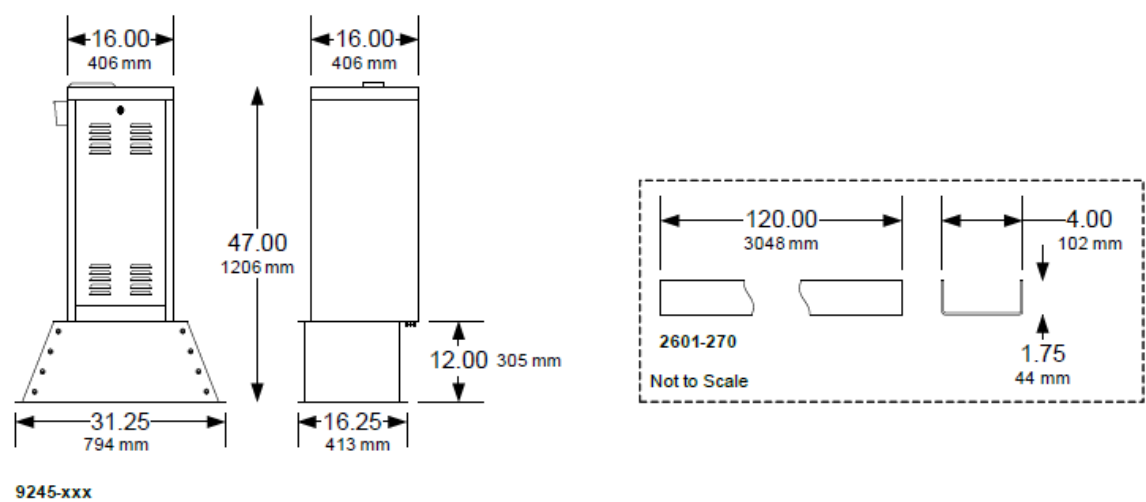
Chain

- 2601-269 #80 Chain, 20-Ft (6 m)

9245 Slide Gate Operator

9245

- Adjustable Limits
- Plug-in Loop Detector Ports
- Built-in power and reset switches
- Two 115 VAC convenience outlets
- Partial open / anti-tailgate feature
- 10:1 Gear Reducer Drive Train
- Electric Brake
- Variable Speed
- 20-Feet (6m) #80 Chain
- Gate tracker data output
- Selectable stop/ reverse function



Mo del	Ch ain	Spee d Va riabl e	Maxim um Ga te Wei ght	Maxim um Ga te Len gth	Minim um Ga te Len gth	Mou nt	Clas s of Oper ation 1	Volt age VAC	HP	Po wer Out lets	Lo op Po rts 2
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92 45	#8 0	1-2 F t/sec .3-.6 m/se c	8000 L bs3 3628 K g	100 Ft 30m	25 Ft 7.6m	Ped estal 3	III, IV	208, 230, 460	3	2	2
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1. III = Limited Access; IV = Restricted Access
2. Plug-in loop detector ports; open and reverse. DoorKing plug-in loop detectors only.
3. 9200-135 pedestal included.

Operators

- 9245-380 3 HP, 208V 3Ø (12.8A)
- 9245-381 3 HP, 230V 3Ø (12.6A)
- 9245-382 3 HP, 460V 3Ø (6.3A)

Choose Entrapment Protection (required) Devices

Use Type B1 (non-contact) and/or Type B2 (contact) entrapment protection devices to protect all areas where the risk of entrapment exist – see Section A1, pages 46-47.

Operator will not run without external entrapment protection devices connected to the controller board. Minimum of two (one in each direction of travel) is required. See installation manual for more information.

Loops and Loop Detectors

See Section A1, page 48 for a complete list of all loop detectors, prefabricated loops and loop accessories available.

Accessories

- 2601-270 Chain Tray Kit 10 Ft (3m)
- 1601-197 Heater Kit 208/230 VAC1
- 1601-198 Heater Kit 480 VAC1
 1. Use if temperature routinely falls below 10°F (-12°C).

Chain

- 2601-269 #80 Chain, 20-Ft (6 m)

Specifications subject to change without notice.

FAQ


- **Q: Can these operators be used in residential applications?**

A: No, these operators are designed for Limited and Restricted industrial applications only, not for Residential or Commercial use.

- **Q: How many entrapment protection devices are required for the 9200 Series operators?**

A: The 9200 Series operators need a minimum of one Type B1 and one Type B2 in EACH direction of travel.

Documents / Resources

	DKS 9245 Slide Gate Operator [pdf] Installation Guide 6550 series, 9200 series, 9500 Series, 9245 Slide Gate Operator, Slide Gate Operator, Gate Operator, Operator
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References

- [User Manual](#)

DKS

6550 series, 9200 Series, 9245 Slide Gate Operator, 9500 Series, DKS, Gate Operator, Operator, Slide Gate Operator

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