

CS Control Panels Datasheet

CS 255

CS 320



CS 255 Control Panel

The CS 255 basic automatic control unit is the compact option for sectional doors and small roller shutters without brakes. Thanks to its compact design, it can be mounted directly on the operator, but can also be optionally installed in an external housing.

The control unit can be actuated via an absolute encoder as well as via mechanical limit switches. End positions and basic functions are programmed via the „intelligent“ CSI-15 triple push button. Further function settings can be made via a 3-key navigation on an optional LC display with plain text display.



Product Information

Functions

- 1 programmable relay output with 44 functions (only via LC display)
- 2 programmable inputs with 27 functions (only via LC display)
- Changing the direction of rotation via circuit board push button/display
- Intermediate position programmable (only with AWG)
- Adjustable power limitation in OPEN direction (only with AWG)
- Rotation direction monitoring and detection (only with AWG)
- Integrated gate run counter
- Programmable maintenance alarm (PIN code protected)
- Integrated error memory (readout of all error messages indicating frequency and cycle of last occurrence) only with LCD monitor

End position setting

- Via mechanical limit switches (MEC) or via absolute encoders (AWG)
- Setting via circuit board push button, external „intelligent“ 3-series pushbutton CSI-15 or plug-in LCD monitor

Operation

- Intelligent 3-series keypad CS-I 15 (standard) for operation and programming of end positions, unwind direction, open time, radio hand-held transmitters, „quick CLOSE“ function and factory setting Readout of cycle number, status and error messages
- 3-button navigation/status and diagnostic messages

Structure and connection

- Integrated in the operator (standard)
- In external housing (optional)
- Switchable transformer from 230 V/1~/3~ to 400 V/3~
- Short-circuit proof extra-low voltage
- Supply for external devices (24 V-DC/200 mA)
- Illuminated keyboard (night lighting)
- Connection for elements of the safety circuit
- Connection for closing edge protection (8.2 kOhm and opto) in OPEN direction
- Connection for 2 light barriers (2-wire, relay, NPN, PNP) with/without testing
- Connection for wicket door and slack rope switch PL c cat. 2 (8.2 kOhm) with testing according to EN 12453:2017
- Connection for 2 light grid systems with/without testing
- Interface for connecting expansion modules
- Pluggable radio receiver

Optional

- MS-Bus LCD monitor with plain text display
- Installation in an external housing
- Version also available in dead man
- Control in steel cabinet

Technical Data

Voltage (V)	230 / 400 3~ / 230 / 1~
Mains Frequency (Hz)	50
Control Voltage (V)	24
Maximum Load - kW(A)	1.4 (5.0)
Protection Rating (IP)	65
Temperature Range (°C)	-10°C / +45°C
Enclosure Dimensions (mm)	165x220x105

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CS 320 Control Panel

The CS 320 comfortable control unit is a special development for rolling, sectional and sliding gates, optimally matched to the requirements in these areas. The fully developed microprocessor control is based on the proven concept of the CS 310 and can be controlled via an absolute encoder as well as via mechanical limit switches.

With a wide range of connection and expansion options, even complex control tasks become child's play for the CS 320. For new installations, but also for the safe retrofitting of existing door systems.



Product Features

Functions

- 4 programmable relay outputs with 44 functions
- 2 programmable inputs with 27 functions
- Changing the direction of rotation via circuit board push button/display
- Intermediate position programmable (only with AWG)
- Adjustable power limitation in OPEN direction (only with AWG)
- Rotation direction monitoring and detection (only with AWG)
- Integrated gate run counter
- Programmable maintenance alarm (PIN code protected)
- Integrated error memory (readout of all error messages indicating frequency and cycle of last occurrence) only with LCD monitor

End position setting

- Via mechanical limit switches (MEC) and/or via absolute encoders (AWG)
- Setting via circuit board push button or plug-in LCD monitor

Operation

- Intelligent 3-series keypad CS-I 15 (standard) for operation and programming of end positions, unwind direction, open time, radio hand-held transmitters, „quick CLOSE“ function and factory setting
- Readout of cycle number, status and error messages
- 3-button navigation/status and diagnostic messages

Structure and Connection

- Switchable transformer from 230 V/1~/3~ to 400 V/3~
- Short-circuit proof extra-low voltage
- Illuminated cover keypad (night illumination)

- Housing protection for printed circuit board
- Adjustable, preassembled wall brackets
- Connection for elements of the safety circuit
- Connection for closing edge protection (opto, 8.2 kOhm, pressure wave bar or leading light barrier) in CLOSE direction
- Connection for closing edge protection (8.2 kOhm and opto) in OPEN direction
- Connection for 2 light barriers (2-wire, relay, NPN, PNP) with/without testing
- Connection for wicket door and slack rope switch PL c cat. 2 (8.2 kOhm) with testing according to EN 12453:2017
- Connection for 2 light grid systems with/without testing
- Connection for radar presence detector
- Interface for connecting a frequency converter
- Interface for connecting expansion modules
- Slots for radio module and weekly timer
- Slot for 2-channel radio transmission system for wireless signal transmission of closing edge system and/or safety circuit
- Control of the magnetic brake via relay output
- For operators with externally switched brake, a brake monitoring module is additionally installed (BWM1)
- Supply for external devices (24 V-DC/500 mA and 230 V-AC/1 A)

Optional

- LCD monitor with plain text display
- MS-Bus extension module two-way traffic control
- MS-Bus extension module pull-in safety device
- Integrated main switch
- Customized cover lamination
- Control in steel cabinet
- A second CS 320 can be coupled via MS-BUS in DUO function



Technical Data

Operating Voltage	V	400 3~ / 230 3~ / 230 1~
Mains Frequency	Hz	50/60
Control Voltage	Hz	24
Supply ext. devices	V DC	24 max. 500 mA
	V AC	230 1~ max. 1A
Maximum Load	kW(A)	2.2 with 400V 3~
	kW(A)	1.5 with 230V 3~
	kW(A)	1.1 with 230V 1~
Protection Rating	IP	65
Temperature Range	°C	-20°C / +60°C
Enclosure Dimensions	mm	215x275x190

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