

Compu-Spread CS-106

Multiple Joystick Control Console

Issue V02: 2018.06



Joystick console series CS-106, with 5 single axis paddle joysticks, 5 auxiliary device switches, valve solenoid trim switch and actuator stow mode switch, for the control of multiple functions on plow truck systems.

The Rexroth CS-106 joystick console is an ergonomically designed operator interface for the control of multiple hydraulic actuators, typically cylinders, on Snow and Ice Control vehicles. The single axis paddle or single/multi-axis joysticks can be configured to control proportional or on/off solenoid valves. Hydraulic valve nulling and trimming are easily done with the on-board rocker and key switch, facilitated by an integral indicator. The controller permits simple configuration of a “park” or stow mode—useful also as an emergency setting—of the actuators being controlled, triggered by a single console button.

This series is available in 3, 5 or 7 paddle joystick versions, each with an equivalent number of selectable rocker switches, as well as double or triple joystick (1, 2 or 3 axis) versions with 3, respectively 5, rocker switches.

The CS-106 console is extremely compact, ideal for installation in vehicle cabs which may not have sufficient space for conventional valve operators. Cab perforations are minimized and installation time is greatly reduced—since no “line of sight is required”—thanks to the pre-configured compact electrical cable harnesses.



Joystick console series CS-106, with 2 multiple axis joysticks, 3 auxiliary device switches, valve solenoid trim switch and actuator stow mode switch, for the control of multiple functions on plow truck systems. Shown with optional armrest.

The CS-106 is ideally matched with the Rexroth CS-530 family of spreader controllers, designed for medium-sized Snow and Ice Control vehicles but, as always, for heavy-duty service.

CS-106 multiple joystick console features

Hall effect joysticks, various configurations possible

Low profile joysticks have high control resolution and low operating force

Illuminated console legends provide paddle identification

Integral valve trimming LED indicator also used for potential fault diagnostics of joysticks and solenoids

Available paddle shroud prevents inadvertent movement

Integrated joystick dead-man switch safety interlock

Rocker switches with LED illuminated symbols, IP 68

Wiring harnesses have integral molded diagnostic LEDs

Spreader control mounting pad for RAM bracket

Multiple joystick console CS-106

Technical Data

General

Enclosure Material	steel, black powder coated, with black anodized aluminum faceplate		
Joystick—paddle version	Single axis spring return, paddle deflection $\pm 30^\circ$; design life 10 million cycles		
Joystick—stick version	Single axis; dual axis "X" Gate or 360° movement; 3 axis 360° with "Z" twist; 5 million cycles		
Mechanical Mounting	1- 1/2" 1/2 Ø post bracket or "Ram Bracket" size 1-1/2", PEM studs for front RAM bracket		
Housing version	3 paddle / 2 joystick	5 paddle / 3 joystick	7 paddle
Weight	3.8 lb. (1.7 kg)	4.8 lb. (2.2 kg)	5.9 lb. (2.7 kg)
Envelope (without base mount)	9" w x 6.4" d x 6.9" h (6")	12.8" w x 6.7" d x 6.9" h (6")	16.7" h x 7" d x 6" h
N.B. Stick joysticks higher than (paddle joysticks)	228 w x 161 d x 174 h (152)	325 w x 168 d x 174 h (152)	425 w x 179 d x 152 h

Electrical

Power Supply	8-32 VDC, console fitted with 10 A input fuse
Solenoid Voltage	12 VDC
Auxiliary Switches (3, 5 or 7)	5 A; 2 or 3 position contoured rocker, latched or spring return; illuminated custom legend text
Joystick	Up to 14 x (7 x double acting) proportional outputs 3.5 A max. each (depending on model); full coil suppression on joystick outputs
Electromagnetic Compatibility	100v/m load dump ISO7637-2 (2004) pulse 5
RF Immunity	ISO 11452-2 400-1000 MHz, 80% mod. 1 kHz
Conducted Immunity	ISO 7637-2 (2004) System Pulse 1, 2a, 2b, 3b, 4
RF Emissions	CISPR 25:2002-08 30 MHz-1GHz acc. to 72/245/EC EN 55025
Electrostatic Discharge	EN 6100-4-2 ISO 10605 Contact ± 8 kv, air discharge ± 15 kv

Environmental

Operating Temperature	-30 ... 85° C
Storage Temperature	-40 ... 85° C
UV Resistance	DIN 75220
Media Resistance	ISO 16750-5
Protection Category	IEC 60529 IP63

CS-106 Housings available:



3 paddles, 3 switches



2 joysticks, 3 switches



5 paddles, 5 switches



3 joysticks, 5 switches



7 paddles, 7 switches

N.B. All dimensions are approximate, intended for illustrative purposes only. Request a certified drawing before beginning construction or installation.

Bosch Rexroth Canada
490 Prince Charles Drive S.
Welland, ON L3B 5X7
tel. +1 905 735 0510
toll free +1 877 COMPU11
info@boschrexroth.ca
www.boschrexroth.ca/cs

© Bosch Rexroth Canada Corp.

This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth. It may not be reproduced or given to third parties without its consent. The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. All products described in this data sheet are subject to normal aging and wear from usage. Subject to change