

# J4C 300 ON – OFF INFORMATION



## GENERAL CHARACTERISTICS

**Housing:** Anticorrosive polyamide (lid & body)

**Main external shaft:** stainless steel

**External screws:** stainless steel

**Gears:** Steel and polyamide

**Visual position indicator:** Polyamide

**Dome:** Polycarbonate

**Adjustable internal cams:** Polyamide

**Electric motor:** 24VDC Brushless motor

**Insulation:** Class B

**(IEC 60034) Service:** S4

## DATASHEET

Model	S300	B300
Voltage VDC/VAC 50/60Hz -0/+5%	24 a 240 (Patent Pending)	12 V <b>ONLY</b>
Operation time unload	58 Sec./90°	58 Sec./90°
Maximum torque break	350 Nm / 3097,5 lb/in	350 Nm / 3097,5 lb/in
Maximum operational torque	300 Nm / 2655 lb/in	300 Nm / 2655 lb/in
Duty rating	75 %	75 %
Max. Working angle	0° to 270°	0° to 270°
Limit switch	4 SPST NO micro (2 motor stop and 2 confirmations)	4 SPST NO micro (2 motor stop and 2 confirmations)
Automatic heater	3,5 W	3,5 W
Big Plug	EN175301-803 FORM A	EN175301-803 FORM A
Small Plug	DIN43650/C	DIN43650/C
Protection IEC 60529 rating	IP67	IP67
Temperature	-20°C +70°C / -4°F +158°F	-20°C +70°C / -4°F +158°F
Weight	5,2 Kg	5,2 Kg



## VALVE CONNECTION

ISO 5211 Plate : F07/F10

DIN 3337 Female output drive : \*22 mm

Option:

ISO 5211 Plate : F12

DIN 3337 Female output drive: \*17 mm



## OPTIONS

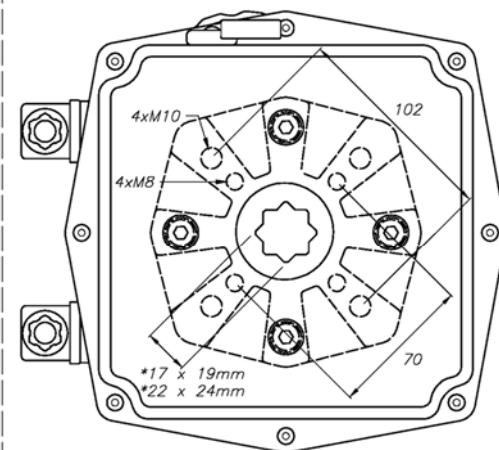
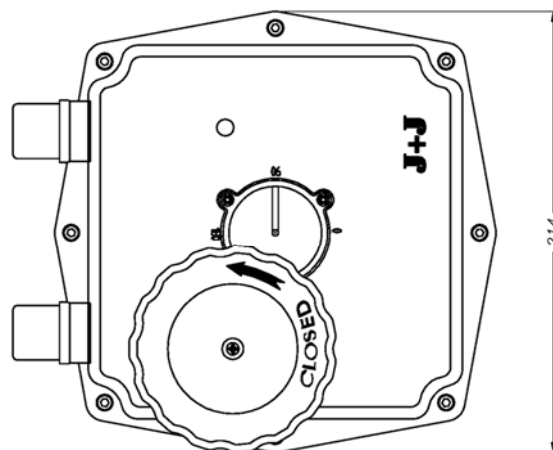
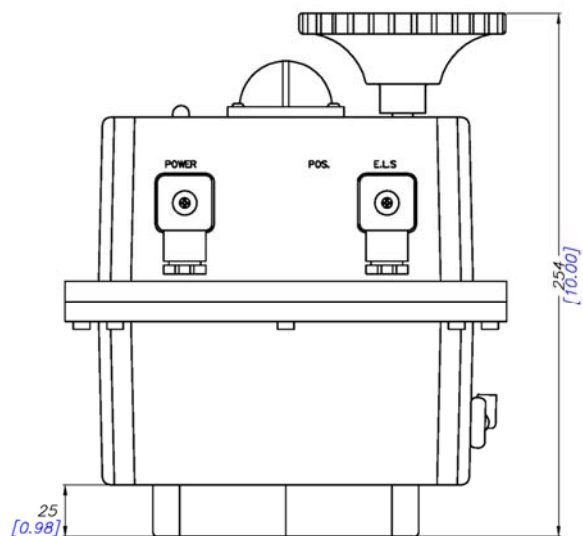
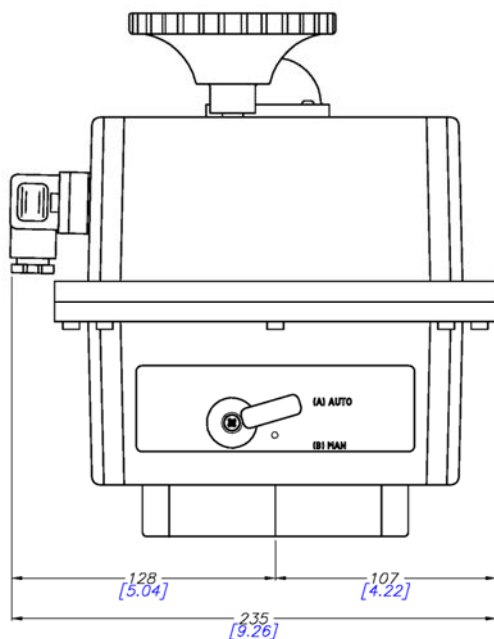
-J4C 140/300 DPS digital positioner: 4-20mA, 0-20mA, 0-10V or 1-10V.

-J4C 140/300 BSR emergency fail safe kit system by battery

-Digital potentiometer: 1K, 5K or 10K.

-3 position actuator: 0°-45°-90° or 0°-90°-180°

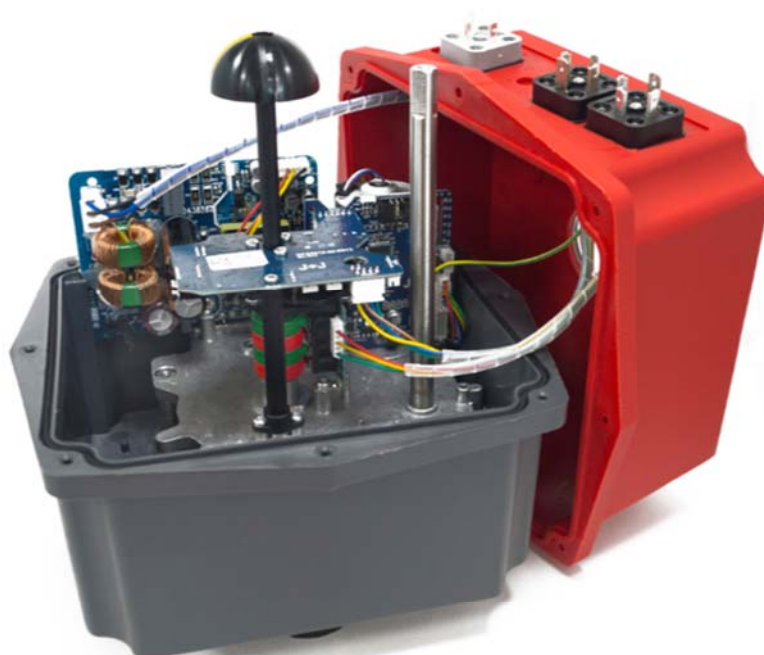
# J4C 300 SIZES





DPS

# J4C 140/300 POSITIONER INFORMATION (DPS)

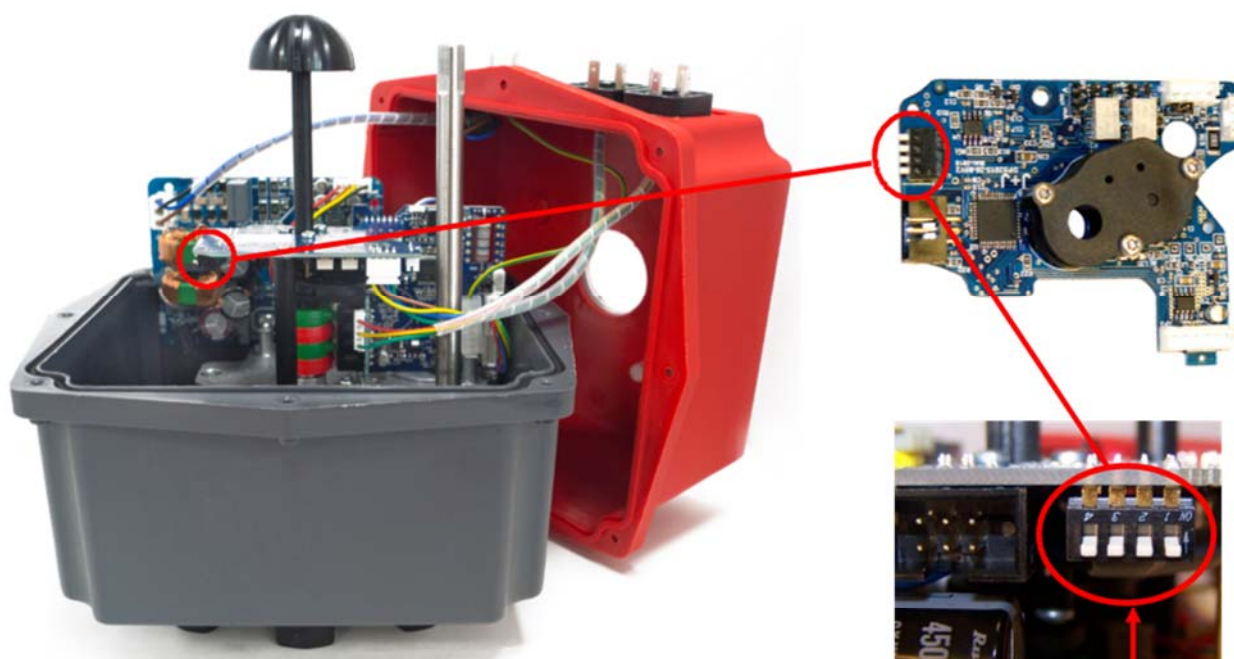


## SPECIFICATIONS

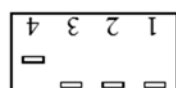
MODEL	S140-B140	S300-B300
Accuracy	3 % F.S.	3 % F.S.
Linearity	2 % F.S.	2 % F.S.
Hysteresis	3 % F.S.	3 % F.S.
Steps at 4/20mA	Min.150 steps 90°	Min.150 steps 90°
Steps at 0/10V	Min.98 steps 90°	Min.98 steps 90°
Steps at 0/20mA	Min.150 steps 90°	Min.150 steps 90°
Steps at 1/10V	Min.87 steps 90°	Min.87 steps 90°
4/20mA or 0/20mA Input signal impedance	100 Ohm	100 Ohm
0/10V or 1/10V Input signal impedance	25 KOhm	25 KOhm
CLASS	B+C to E DIN EN 15714 Inching + Modulation	

F.S. Full Scale

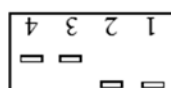
# J4C 140/300 POSITIONER CONFIGURATION (DPS)



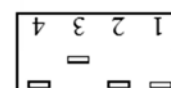
Use the configuration you need by moving the DIPs:  
Different possibilities of configuration:



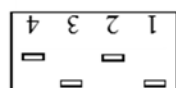
**4/20 mA  
NC**



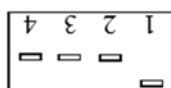
**0/10 V  
NC**



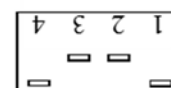
**1/10 V  
NC**



**4/20mA  
NO**



**0/10 V  
NO**

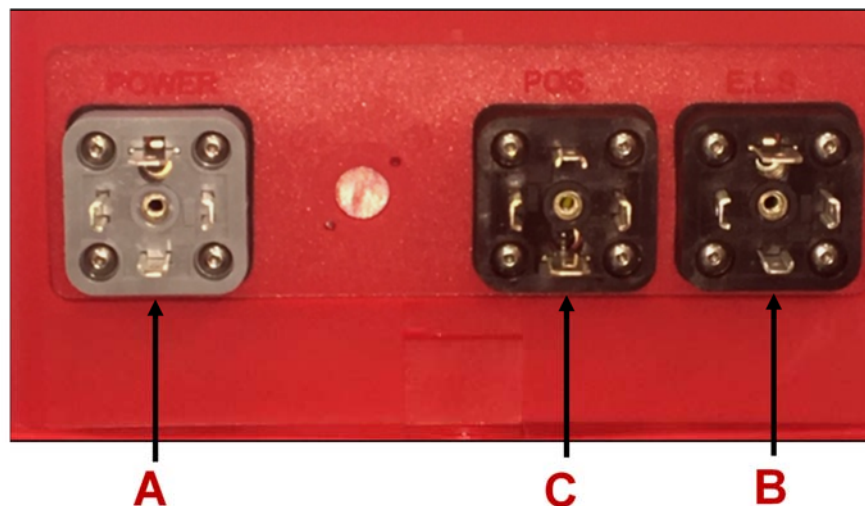


**1/10 V  
NO**

## OTHER OPTIONS TO BE SET-UP BY THE MANUFACTURER OR WITH A J4C INTERFACE

OUTPUT ONLY	4/20 mA, 0/10 V, 0/20 mA, 1/10 V
INPUT & OUTPUT	0/20 mA
MOTOR STOP, WITHOUT INSTRUMENTATION	4/20 mA, 0/10 V, 0/20 mA, 1/10 V

## J4C 140/300 POSITIONER SELF-ADJUSTMENT (DPS)



**A**- Power supply plug.

**B**- Volt free contact plug.

**C**- Input / Output signal (4/20mA,0/10V,0/20mA o 1/10V) plug.

**1- C** plug - connect a cable between PIN 1 (on the left side) and PIN Earth (on the bottom).

**2- A** plug - connect:

VAC: PIN1 (neutral) and PIN2 (phase).

VDC: PIN1 (negative) and PIN2 (positive).

**\*VERY IMPORTANT: BEFORE CONNECTING “A” PLUG TO THE ACTUATOR, CHECK THAT THE VOLTAGE IS THE SAME AS THE ONE SPECIFIED ON THE LABEL (CARTER).**

**3- B** plug - disconnect the cable between PIN 1 (on the left side) and PIN Earth (on the bottom).

The actuator will make a complete maneuver and stay in the close position.

The actuator is ready to connect the (4/20mA,0/10V,0/20mA o 1/10V) signal to the **B** plug.



**BSR**



## J4C 140/300 BSR INFORMATION



### SPECIFICATIONS

ACTUATOR MODEL	S140-B140	S300-B300
N° Working operation without recharge, with 100% battery charge	4	4
Recharge time/working operation	30 min	50 min
Battery consumption/working operation	23 W	23 W
Full charge time 100%	54 h	54 h
Nominal capacity +/- 5%	2200 mA	2200 mA
NO or NC Features (*)	Jumper	Jumper
Current/one working operation with battery	15,1 mA	25,7 mA
Battery charge	40 mA/h	40 mA/h



# J4C 140/300 BSR CONFIGURATION

CONFIGURATIONS	A	B
PREFERRED POSITION IN CASE OF POWER CUT	(NC) NORMALLY CLOSE	(NO) NORMALLY OPEN

## (\*) NO or NC Set-Up



### NC Set-Up

NC - If, in case of a power supply failure, we need the actuator go to the CLOSE position, we need to put the **jumper 1** on the SELDIR position.

### NO Set-Up

NO - If, in case of a power supply failure, we need the actuator go to the OPEN position, be sure that the **jumper 1** is not on the SELDIR position.