



Cert. No. LRQ 0963008

ISO 9001

spirax/sarco

TI-P370-02

CH Issue 4

RB11 and RB31 Switchboxes

Description

The RB series switchboxes are for use with linear pneumatic actuators conforming to the NAMUR standard. The RB series provides switched electric or variable resistance outputs, relative to valve actuator position.

Applications

The RB series switchboxes can be used with the following Spirax Sarco actuators using the fixing kit specified

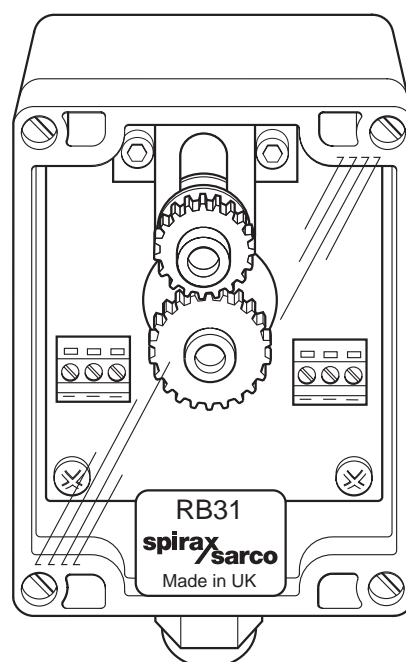
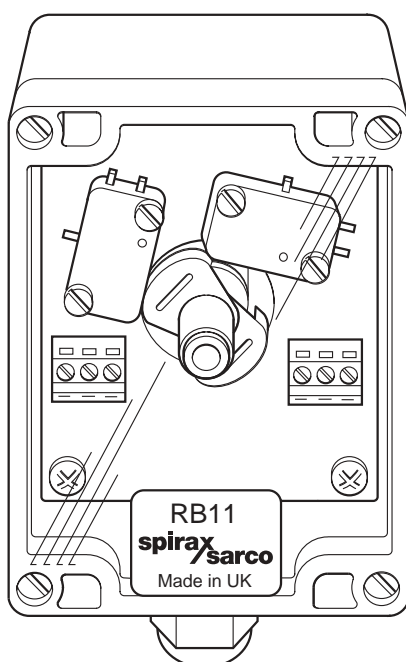
Pneumatic linear types	Fixing kit	Weight
PN3000	FK27	431g
PN4000		
PN5100, PN5200, PN5300, PN5400, PN5500 and PN5600		
PN6100, PN6200, PN6300, PN6400, PN6500 and PN6600		

Technical data - RB11 (Electromechanical switch)

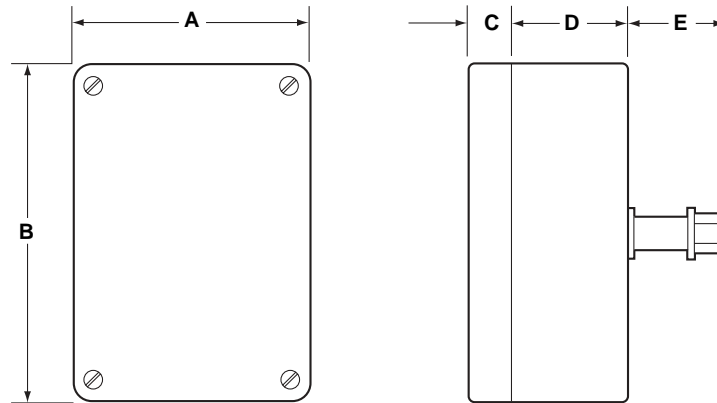
Enclosure rating	IP65
Ambient temperature limits	-25°C to +70°C
Housing material	Black ABS
Cover material	Clear ABS
Number of switches	2
Type	V3 SPDT
Rating	10 A at 250 Vac - Resistive 6 A at 250 Vac - Inductive
Contact material	Silver plated
Terminations	Klippon
Electrical entry	PG11
Weight	247 g

Technical data - RB31 (Variable resistance feedback)

Enclosure rating	IP65
Ambient temperature limits	-25°C to +70°C
Housing material	Black ABS
Cover material	Clear ABS
Gear material	Delrin
Resistance change	1 000 ohms nominal
Linearity and hysteresis	±10%
Rating (at 70°C ambient)	0.25 W
Travel	20 mm 30 mm
Terminations	Klippon
Electrical entry	PG11
Weight	350 g



Dimensions (approximate) in mm



A	B	C	D	E
80	120	15	40	35

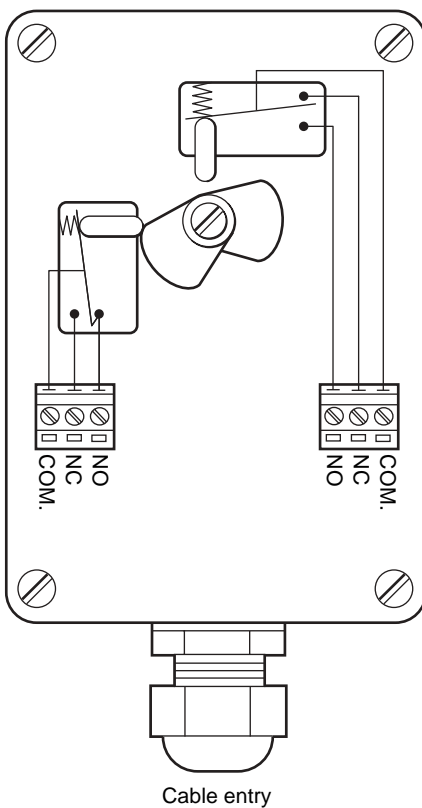
RB31 gear identification

Standard units are available for 20 mm and 30 mm linear travel. A table showing the combinations of gears is shown below:-

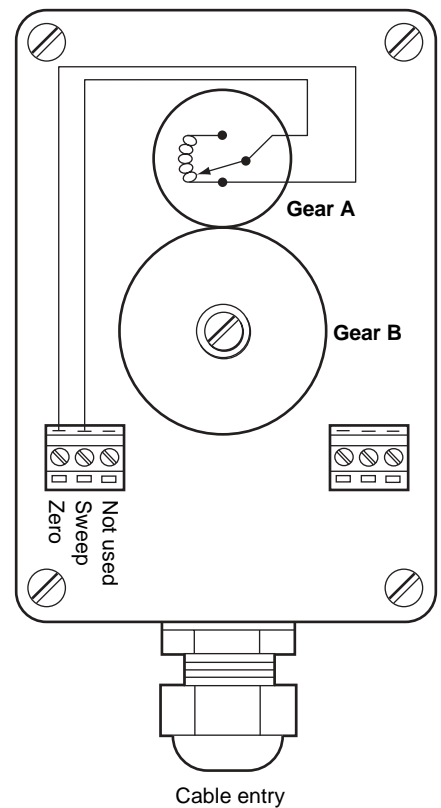
Refer to RB31 schematic for gear actuation

Travel	Gear A	Gear B
20 mm linear	20	100
30 mm linear	25	84

Connections



RB11



RB31

How to order

Example: 1 off Spirax Sarco RB31 switchbox, 20 mm travel with FK27 fixing kit.

Note: when ordering RB31, valve travel must be stated.

A service to provide assembly and calibration of switchboxes to the valve / actuator of your choice is available. Please specify when ordering.

Spare parts available

RB11	V3 microswitch
	Baseplate c/w V3 microswitches and terminal strip
RB31	Potentiometer
	Baseplate c/w potentiometer and terminal strips