

The BCS-10 Pullcord switch has been designed to provide 3-wire stop/start control.



This is achieved via 2 switch contacts:

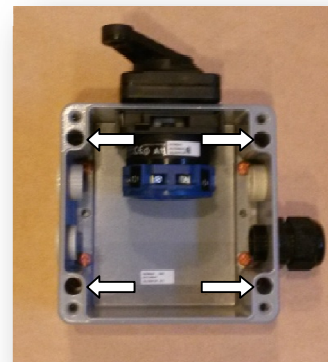
- A single pole latching contact that will change its state with each cycle of the switch handle.
- A single pole momentary contact, that is timed to turn on simultaneously with the latching contact turning on.

The BCS-10 switch can be installed to carry out functions other than 3-wire stop/start by utilizing the contacts above in a different way, for example using only the latching contact to give a PULL ON / PULL OFF control.

### 1. Switch Mounting

BCS-10 switches have 4 through holes in the rear housing provided for switch mounting.

These holes will accept fasteners up to 7mm in diameter, with a head size of up to 11mm.





### 3. Switch Ratings and Specifications

The following data is the switch manufacturers ratings and specifications.

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107							
<b>Rated insulation voltage <math>U_i</math></b>							
				Voltage (V) AC / DC			
600 AC / DC							
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>							
Voltage (kV)		Overvoltage category		Pollution degree		Supply system	
6 III		3		3		Valid for lines with grounded common neutral termination	
<b>Conventional enclosed thermal current <math>I_{thc}</math></b>							
Current (A)		Ambient temperature (°C)		Peak temperature (°C)		Additional requirements	
20		35		40		Ambient temperature +35°C during 24 hours with peaks up to +40°C.	
<b>Rated operational current <math>I_e</math></b>							
<b>Utilization category</b>				Voltage (V)		Current (A)	
AC-1b				220-240		6	
AC-15				380-440		4	
AC-20A				890		20	
AC-21A				890		20	
AC-22A				220-500		20	
AC-22A				660-890		18	
<b>Rated operational power</b>							
<b>Utilization category</b>		Voltage (V)		No. of phases		No. of poles	
AC-2		220-240		3		3	
AC-2		380-440		3		3	
AC-2		500-500		3		3	
AC-2		660-660		3		3	
AC-3		220-240		3		3	
AC-3		200-440		3		3	
AC-3		500-500		3		3	
AC-3		660-660		3		3	
AC-3		110-110		1		2	
AC-3		220-240		1		2	
AC-3		380-440		1		2	
AC-4		220-240		3		3	
AC-4		380-440		3		3	
AC-4		500-500		3		3	
AC-4		660-660		3		3	
AC-4		110-110		1		2	
AC-4		220-240		1		2	
AC-4		380-440		1		2	
AC-4		980-440		1		2	
AC-23A		220-240		3		3	
AC-23A		380-440		3		3	
AC-23A		500-500		3		3	
AC-23A		660-660		3		3	
AC-23A		110-110		1		2	
AC-23A		220-240		1		2	
AC-23A		300-440		1		2	

UL60947-4-1, UL508							
<b>Nominal Voltage</b>							
				Voltage (V) AC / DC			
600 AC							
<b>Rated insulation voltage <math>U_i</math></b>							
				Voltage (V) AC / DC			
600 AC							
<b>Rated thermal current</b>							
Current (A)		Ambient temperature (°C)		Additional Text			
10		40					

GENERAL TECHNICAL INFORMATION							
<b>Tightening torque of screws</b>							
				tightening torque (Nm)		tightening torque (lb-in)	
				0.80		7	
<b>Stripping length</b>							
				Length (mm) --			
8 STRIPPING LENGTH							
<b>Mechanical life</b>							
No. of operations		Ambient temperature (°C)		Number of stages			
1000000		-5-55		--			
<b>Electrical life</b>							
Utilization category	cos(φ)	Time constant (ms)	Voltage (V)	Current (A)	No. of operations	number of series contacts AC/DC	No. of phases No. of poles
	0.59	--	122	10	150000	1 AC	1 1
	0.59	--	220	10	100000	1 AC	1 1
	0.51	--	220	15	50000	1 AC	1 1
	0.64	--	220	20	30000	1 AC	1 1
<b>Recommended screw driver</b>							
Type of screw driver		Size		Head dimensions			
Cross Screwdriver		PH1					
Slotted Screwdriver		0,6x1					
<b>Degree of protection</b>							
IP - Code switch terminal							
IP10							
<b>General Information</b>							
<b>Text</b>							
DC switching capacity applies to ON/OFF switches.							
Do neither lubricate nor treat contacts.							
Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.							
Use copper wires, only.							
Terminals with factory fitted jumper links, are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.							
Use only fully insulated cable lugs resp. FASTON receptacles							
After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.							
<b>Operating temperature</b>							
Min. Temperature [°C]				Max. Temperature [°C]			
-5				80			