



I. K. ELECTRICAL

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PRODUCT RANGE**MICRO SWITCHES**

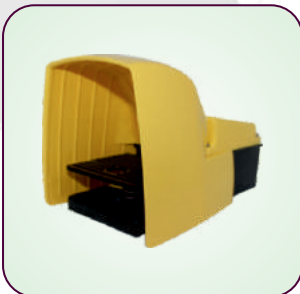
B3 Series
B1 Series

- Fin Type
- QC Type
- T Type

AZ Series
Elements

**LIMIT SWITCHES**

Precision Series
BEST Series
Standard Series
Compact Series
Miniature Series
BLS Series

**FOOT SWITCHES**

Mini Series
Medium Series
Heavy Series

- Single Pedal
- Double Pedal

**SAFETY LIGHT CURTAIN**

Parallel Beam Type
Controller for Safety Light Curtain

- Controller with Normal Relay
- Controller with Safety Relay

**SWITCH MODE POWER SUPPLY (SMPS)**

Panel Mount

- Premium Series
- Economics Series

DIN Rail Mount

- Premium Series
- Economics Series

B3 SERIES MINIATURE MICRO SWITCHES

FEATURES

- ✓ Compliant with IEC 60947-5-1
- ✓ Silver contact
- ✓ Beryllium copper spring
- ✓ Highly Reliable

TECHNICAL SPECIFICATION

- ✓ Rating : 10A/250V AC
- ✓ Contact : SPDT
- ✓ Contact Material : Silver Contact
- ✓ Spring : Beryllium Copper
- ✓ Terminal : Brass
- ✓ Body Material : FR Grade PBT

TERMINALS



ORDER CODE

Product Description	Terminal	Operating Force					Std. Pkg. (Nos.)
		50gms (2Amp)	100gms (4Amp)	200gms (4Amp)	400gms (10Amp)	500gms (10Amp)	
Pin Plunger (Basic) 	SCREW SOLDER Q.C.	B3A-00R B3B-00R B3C-00R	B3A-00BL B3B-00BL B3C-00BL	B3A-00Y B3B-00Y B3C-00Y	B3A-00W B3B-00W B3C-00W	B3A-00B B3B-00B B3C-00B	50
Plain Lever (Short) 	SCREW SOLDER Q.C.	B3A-01R B3B-01R B3C-01R	B3A-01BL B3B-01BL B3C-01BL	B3A-01Y B3B-01Y B3C-01Y	B3A-01W B3B-01W B3C-01W	B3A-01B B3B-01B B3C-01B	40
Plain Lever (Medium) 	SCREW SOLDER Q.C.	B3A-02R B3B-02R B3C-02R	B3A-02BL B3B-02BL B3C-02BL	B3A-02Y B3B-02Y B3C-02Y	B3A-02W B3B-02W B3C-02W	B3A-02B B3B-02B B3C-02B	40
Plain Lever (Extended) 	SCREW SOLDER Q.C.	B3A-03R B3B-03R B3C-03R	B3A-03BL B3B-03BL B3C-03BL	B3A-03Y B3B-03Y B3C-03Y	B3A-03W B3B-03W B3C-03W	B3A-03B B3B-03B B3C-03B	40
Plain Lever (Extra Extended) 	SCREW SOLDER Q.C.	B3A-04R B3B-04R B3C-04R	B3A-04BL B3B-04BL B3C-04BL	B3A-04Y B3B-04Y B3C-04Y	B3A-04W B3B-04W B3C-04W	B3A-04B B3B-04B B3C-04B	40
Roller Lever (Short) 	SCREW SOLDER Q.C.	B3A-05R B3B-05R B3C-05R	B3A-05BL B3B-05BL B3C-05BL	B3A-05Y B3B-05Y B3C-05Y	B3A-05W B3B-05W B3C-05W	B3A-05B B3B-05B B3C-05B	40
Roller Lever (Medium) 	SCREW SOLDER Q.C.	B3A-06R B3B-06R B3C-06R	B3A-06BL B3B-06BL B3C-06BL	B3A-06Y B3B-06Y B3C-06Y	B3A-06W B3B-06W B3C-06W	B3A-06B B3B-06B B3C-06B	40
V Notch Lever (Medium) 	SCREW SOLDER Q.C.	B3A-07R B3B-07R B3C-07R	B3A-07BL B3B-07BL B3C-07BL	B3A-07Y B3B-07Y B3C-07Y	B3A-07W B3B-07W B3C-07W	B3A-07B B3B-07B B3C-07B	40
Stimulated Lever (Medium) 	SCREW SOLDER Q.C.	B3A-08R B3B-08R B3C-08R	B3A-08BL B3B-08BL B3C-08BL	B3A-08Y B3B-08Y B3C-08Y	B3A-08W B3B-08W B3C-08W	B3A-08B B3B-08B B3C-08B	40
Plain Leaf Lever (Short) 	SCREW SOLDER Q.C.	B3A-09R B3B-09R B3C-09R	B3A-09BL B3B-09BL B3C-09BL	B3A-09Y B3B-09Y B3C-09Y	B3A-09W B3B-09W B3C-09W	B3A-09B B3B-09B B3C-09B	20
Roller Leaf Lever (Short) 	SCREW SOLDER Q.C.	B3A-10R B3B-10R B3C-10R	B3A-10BL B3B-10BL B3C-10BL	B3A-10Y B3B-10Y B3C-10Y	B3A-10W B3B-10W B3C-10W	B3A-10B B3B-10B B3C-10B	20
Finger Push Button (Single Pole) 	SCREW SOLDER Q.C.	B3A-15R B3B-15R B3C-15R	B3A-15BL B3B-15BL B3C-15BL	B3A-15Y B3B-15Y B3C-15Y	B3A-15W B3B-15W B3C-15W	B3A-15B B3B-15B B3C-15B	20
Finger Push Button (Double Pole) 	SCREW SOLDER Q.C.	B3A-16R B3B-16R B3C-16R	B3A-16BL B3B-16BL B3C-16BL	B3A-16Y B3B-16Y B3C-16Y	B3A-16W B3B-16W B3C-16W	B3A-16B B3B-16B B3C-16B	20
Push Button (Single Pole) 	SCREW SOLDER Q.C.	B3A-17R B3B-17R B3C-17R	B3A-17BL B3B-17BL B3C-17BL	B3A-17Y B3B-17Y B3C-17Y	B3A-17W B3B-17W B3C-17W	B3A-17B B3B-17B B3C-17B	20
Push Button (Double Pole) 	SCREW SOLDER Q.C.	B3A-18R B3B-18R B3C-18R	B3A-18BL B3B-18BL B3C-18BL	B3A-18Y B3B-18Y B3C-18Y	B3A-18W B3B-18W B3C-18W	B3A-18B B3B-18B B3C-18B	20
Z Lever (Long) 	SCREW SOLDER Q.C.	B3A-24R B3B-24R B3C-24R	B3A-24BL B3B-24BL B3C-24BL	B3A-24Y B3B-24Y B3C-24Y	B3A-24W B3B-24W B3C-24W	B3A-24B B3B-24B B3C-24B	20

B1 SERIES MICRO STANDARD SWITCHES

FEATURES

- ✓ Compliant with IEC 60947-5-1
- ✓ Silver contact
- ✓ Beryllium copper spring
- ✓ Highly Reliable

TECHNICAL SPECIFICATION

- ✓ Rating : 15A/250V AC
- ✓ Contact : SPDT
- ✓ Contact Material : Silver Contact
- ✓ Spring : Beryllium Copper
- ✓ Terminal : Brass
- ✓ Body Material : FR Grade PBT

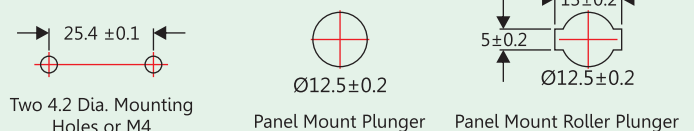
TERMINALS



ORDER CODE (Standard Packing : 10 Nos. Per Box)

Description	Pin Plunger (Basic)	Plain Lever (Long)	Roller Lever (Short)	Roller Lever (Long)
Terminals	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw
Order Code	FIN-01 / Q-01 / T-01	FIN-02 / Q-02 / T-02	FIN-03 / Q-03 / T-03	FIN-04 / Q-04 / T-04
Description	Plain Leaf (Flexible)	Roller Leaf (Flexible)	Finger Push Button	Overtravel Plunger (Compact)
Terminals	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw
Order Code	FIN-05 / Q-05 / T-05	FIN-06 / Q-06 / T-06	FIN-07 / Q-07 / T-07	FIN-08 / Q-08 / T-08
Description	Overtravel Plunger (Extended)	Panel Mount Plunger	Panel Mount Roller Plunger (Cross)	Panel Mount Roller Plunger (Across)
Terminals	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw
Order Code	FIN-09 / Q-09 / T-09	FIN-10 / Q-10 / T-10	FIN-11 / Q-11 / T-11	FIN-12 / Q-12 / T-12
Description	Plain Lever (Short) (R.A.)	Roller Lever (Short) (R.A.)	Plain Lever (Medium) (R.A.)	Roller Lever (Medium) (R.A.)
Terminals	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw
Order Code	FIN-13 / Q-13 / T-13	FIN-14 / Q-14 / T-14	FIN-15 / Q-15 / T-15	FIN-16 / Q-16 / T-16
Description	Plain Lever (PVC) (R.A.)	Panel Mount Roller Plunger (Auxiliary)	Panel Mount Plunger (Auxiliary)	Plain Lever (Short) (Plastic)
Terminals	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw	Solder / Q.C. / Screw
Order Code	FIN-17 / Q-17 / T-17	FIN-18 / Q-18 / T-18	FIN-19 / Q-19 / T-19	FIN-20 / Q-20 / T-20
Description	Overtravel Plunger (Sp. Extended)			
Terminals	Screw			
Order Code	BMS-7			

Mounting All Dimension are in mm



AZ SERIES MICRO SWITCHES











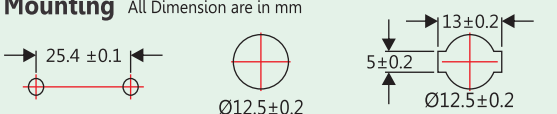
FEATURE

- ✓ Compliant with IEC 60947-5-1
- ✓ Rugged & Highly Reliable design
- ✓ Quick MAKE & BREAK action

TECHNICAL SPECIFICATION

- ✓ Rating : 10A/250V AC
- ✓ Contact : SPDT
- ✓ Contact Material : Bi- Metal
- ✓ Terminal : Brass
- ✓ Terminal Type : Screw
- ✓ Body Material : Glass Field Nylon

ORDER CODE (Standard Packing : 10 No. Per Box)

				
Description	Overtravel Plunger (Compact)	Overtravel Plunger (Extended)	Panel Mount Plunger	Panel Mount Roller Plunger (Cross)
Order Code	AZ-7100	AZ-7110	AZ-7310	AZ-7311
				
Description	Panel Mount Roller Plunger (Across)	Roller Lever (Short)	Roller Lever (Medium)	Double Roller Lever (Short)
Order Code	AZ-7312	AZ-7141	AZ-7121	AZ-7144
			<p>Mounting All Dimension are in mm</p>  <p>Two 4.2 Dia. Mounting Holes or M4 Panel Mount Plunger Panel Mount Roller Plunger</p>	
Description	Double Roller Lever (Medium)	Wobble Lever		
Order Code	AZ-7124	AZ-7166		

ELEMENTS







FEATURE

- ✓ Compliant with IEC 60947-5-1
- ✓ Rugged & Highly Reliable design
- ✓ Quick MAKE & BREAK action

TECHNICAL SPECIFICATION

- ✓ Rating : 10A/500V AC
- ✓ Contact : DPDT-CO
- ✓ Contact Material : Bi- Metal
- ✓ Terminal : Brass
- ✓ Terminal Type : Screw
- ✓ Body Material : Glass Field Nylon

ORDER CODE (Standard Packing : 10 Nos. Per Box)

			
Description	Plunger (Open Type)	Push Rod (Open Type)	Plunger (Protective Cover)
Order Code	Normal	BML-001	LSO
	Snap	BMLS-001	LSOS
			
Description	Push Rod (Protective Cover)	BLS & BCL Element (Protective Cover)	BLS & BCL Element (Protective Cover)
Order Code	Normal	LSO-ES	
	Snap	LSOS-ES	BSE
			CSE

PRECISION LIMIT SWITCH

FEATURE

- ✓ Compliant with IEC 60947-5-1
- ✓ Rugged & Highly Reliable design
- ✓ Quick MAKE & BREAK action

TECHNICAL SPECIFICATION

- ✓ Rating : 10A/500V AC
- ✓ Contact : SPDT-DB / DPDT-DB
- ✓ Contact Material : Silver
- ✓ Terminal : Brass
- ✓ Body Material : FR Grade PBT

TERMINALS

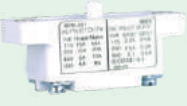

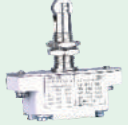



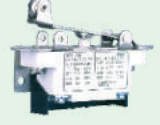
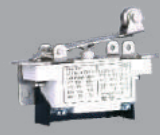






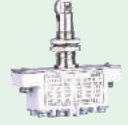



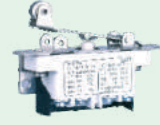



SPDT-DB (1NO+1NC)



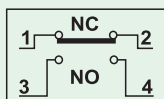
DPDT-DB (2NO+2NC)

ORDER CODE (Standard Packing : 10 No. Per Box)

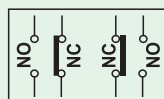
Description	Pin Plunger (Basic)	
Contact	SPDT-DB	
Order Code	BPS-001	
Description	Panel Mount Plunger	
Contact	SPDT-DB	
Order Code	BPS-101	
Description	Panel Mount Roller Plunger (Cross)	
Contact	SPDT-DB	
Order Code	BPS-102	
Description	Panel Mount Roller Plunger (Across)	
Contact	SPDT-DB	
Order Code	BPS-103	
Description	Plain Lever 6 inch Right Hand	
Contact	SPDT-DB	
Order Code	BPS-104	
Description	Plain Lever 6 inch Left Hand	
Contact	SPDT-DB	
Order Code	BPS-105	
Description	Roller Lever Right Hand	
Contact	SPDT-DB	
Order Code	BPS-106	
Description	Roller Lever Left Hand	
Contact	SPDT-DB	
Order Code	BPS-107	
Description	Short Plain Lever	
Contact	SPDT-DB	
Order Code	BPS-108	
Description	Short Roller Lever	
Contact	SPDT-DB	
Order Code	BPS-109	

Description	Pin Plunger (Basic)	
Contact	DPDT-DB	
Order Code	BPS-002	
Description	Panel Mount Plunger	
Contact	DPDT-DB	
Order Code	BPS-201	
Photo		
Description	Panel Mount Roller Plunger (Cross)	
Contact	DPDT-DB	
Order Code	BPS-202	
Description	Panel Mount Roller Plunger (Across)	
Contact	DPDT-DB	
Order Code	BPS-203	
Description	Plain Lever 6 inch Right Hand	
Contact	DPDT-DB	
Order Code	BPS-204	
Description	Plain Lever 6 inch Left Hand	
Contact	DPDT-DB	
Order Code	BPS-205	
Description	Roller Lever Right Hand	
Contact	DPDT-DB	
Order Code	BPS-206	
Description	Roller Lever Left Hand	
Contact	DPDT-DB	
Order Code	BPS-207	
Description	Short Plain Lever	
Contact	DPDT-DB	
Order Code	BPS-208	
Description	Short Roller Lever	
Contact	DPDT-DB	
Order Code	BPS-209	

Contact Form



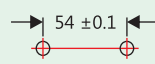
SPDT-DB (1NO+1NC)



DPDT-DB (2NO+2NC)

Mounting

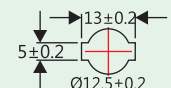
All Dimension are in mm



Two 4.2 Dia. Mounting Holes or M4



Panel Mount Plunger



Panel Mount Roller Plunger





LIMIT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)







Series Name		BEST Series				
Order Code	Snap	BEST-01	BEST-02	BEST-03	BEST-04	BEST-05
	Normal					
						
Description		R38 Roller Lever	R50 Roller Lever	R64 Roller Lever	R76 Roller Lever	Yoke Roller Lever
Electrical Ratings		10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC
Contact Form		SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB
Body Material		Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Plunger / Roller Material		Brass	Brass	Brass	Brass	Brass






Series Name		BEST Series				
Order Code	Snap	BEST-06	BEST-07	BEST-08	BEST-09	BEST-10
	Normal					
						
Description		Adjustable Roller Lever	Adjustable Rod	Top Plunger	Top Roller Plunger	Side Plunger
Electrical Ratings		10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC
Contact Form		SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB
Body Material		Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Plunger / Roller Material		Brass	Brass	Brass	Brass	Brass







Series Name		BEST Series				
Order Code	Snap	BEST-11	BEST-12	BEST-13PS	BEST-14PS	BEST-15PS
	Normal			BEST-13P	BEST-14P	BEST-15P
						
Description		Side Roller Plunger	Wobble Lever	Pin Plunger	Normal Roller Lever	Angular Roller Lever
Electrical Ratings		10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC
Contact Form		SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB
Body Material		Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Plunger / Roller Material		Brass	Brass	Brass	Brass	Brass







Series Name		Standard Series		Standard Oil Tight Series	
Order Code	Snap	LSRS	LSPS	LSRS-O	LSPS-O
	Normal	LSR	LSP	LSR-O	LSP-O
					
Description		Roller Lever	Pin Plunger	Roller Lever-Oil Tight	Pin Plunger-Oil Tight
Electrical Ratings		10A/480VAC	10A/480VAC	10A/480VAC	10A/480VAC
Contact Form		DPDT-CO	DPDT-CO	DPDT-CO	DPDT-CO
Body Material		Aluminium	Aluminium	Aluminium	Aluminium
Plunger / Roller Material		Plastic	Brass	Plastic	Brass

ORDER CODE (Standard Packing : 1No. Per Box)

Series Name		Compact Limit Switch - BCL Series					
Order Code	Snap	BCL-701	BCL-706	BCL-707	BCL-708	BCL-709	BCL-710
	Normal						
							
Description		Roller Lever	Adjustable Roller Lever	Adjustable Rod	Top Plunger	Top Roller Plunger	Angular Roller Lever
Electrical Ratings		10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC
Contact Form		SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB
Body Material		Zinc Casting Body and Glass Field Nylon Cover					
Plunger / Roller Material		Plastic	Plastic	Brass	Brass	Brass	Brass

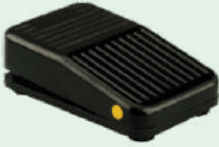

Series Name		Compact Limit Switch - BCL Series		Miniature Limit Switch - BML Series		
Order Code	Snap	BCL-711	BCL-712	BML-PS	BML-RS	BML-RLS
	Normal			BML-P	BML-R	BML-RL
						
Description		Spring Wobble Lever	Wobble Rod	Top Plunger	Top Roller Plunger	Angular Roller Lever
Electrical Ratings		10A/250VAC	10A/250VAC	10A/480 VAC	10A/480 VAC	10A/480 VAC
Contact Form		SPDT-DB	SPDT-DB	DPDT-CO	DPDT-CO	DPDT-CO
Body Material		Zinc Casting Body and Glass Field Nylon Cover		Aluminium	Aluminium	Aluminium
Plunger / Roller Material		MS	Brass	Brass	Brass	Brass



Series Name		BLS Series with Ingress Protection rating IP67					
Order Code	Snap	BLS-01	BLS-02	BLS-03	BLS-04	BLS-05	BLS-06
	Normal						
							
Description		R38 Roller Lever	R50 Roller Lever	R64 Roller Lever	R76 Roller Lever	Yoke Roller Lever	Adjustable Roller Lever
Electrical Ratings		10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC
Contact Form		SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB
Body Material		Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Plunger / Roller Material		Brass	Brass	Brass	Brass	Brass	Brass





Series Name		BLS Series with Ingress Protection rating IP67					
Order Code	Snap	BLS-07	BLS-08	BLS-09	BLS-10	BLS-11	BLS-12
	Normal						
							
Description		Adjustable Rod	Top Plunger	Top Roller Plunger	Side Plunger	Side Roller Plunger	Wobble Lever
Electrical Ratings		10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC	10A/250VAC
Contact Form		SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB	SPDT-DB
Body Material		Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Plunger / Roller Material		Brass	Brass	Brass	Brass	Brass	Brass

MINI SERIES FOOT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)



Series Name	BFS-00 Series			
Order Code	BFS-00	BFS-00/C2.2	BFS-00/USB/LC/C5	BFS-00/USB/RC/C5
				
Description	Basic Foot Switch		USB Foot Switch	
Electrical Ratings	6A/250VAC	6A/250VAC	- / -	- / -
Contact Form	SPDT	SPST-NO	- / -	- / -
Cable Core / Cable Length	- / -	2 core / 2 meters	- / 5 meters	- / 5 meters
Body / Pedal Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Body / Pedal Colour	Black	Black	Black	Black
Cover / Guard Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Cover / Guard Colour	Black	Black	Black	Black



Series Name	BFS-01 Series		BFS-02 Series	
Order Code	BFS-01/A	BFS-01/A/C2.2	BFS-02/A	BFS-02/A/C2.2
				
Description	Basic Foot Switch		Basic Foot Switch	
Electrical Ratings	10A/250VAC		10A/250VAC	
Contact Form	SPDT	SPST-NO	SPDT	SPST-NO
Cable Core / Cable Length	- / -	2 core/ 2 meters	- / -	2 core/ 2 meters
Body / Pedal Material	Aluminium Pressure Deicasting		Aluminium Pressure Deicasting	
Body / Pedal Colour	Grey		Grey	
Cover / Guard Material	Aluminium Pressure Deicasting		Aluminium Pressure Deicasting	
Cover / Guard Colour	Grey		Grey	

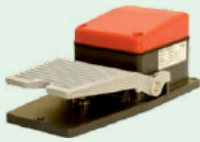

Series Name	BFS-06 Series	BFS-17 Series	Twin Series	
Order Code	BFS-06	BFS-17/C2.2	BFS-00/T/C4.3	BFS-01/A/T/C4.3
				
Description	Basic Foot Switch	Basic Foot Switch	Twin Foot Switch	Twin Foot Switch
Electrical Ratings	6A/250VAC	6A/250VAC	6A/250VAC	10A/250VAC
Contact Form	SPST-NO	SPST-NO	2 SPST-NO	2 SPST-NO
Cable Core / Cable Length	2 core / 2 meters	2 core / 2 meters	4 core / 3 meters	4 core / 3 meters
Body / Pedal Material	Rubber	MS	Polycarbonate	Aluminium Pressure Deicasting
Body / Pedal Colour	Black	Black	Black/White	Yellow/Blue
Cover / Guard Material	Rubber	MS	Polycarbonate	Aluminium Pressure Deicasting
Cover / Guard Colour	Black	Black	Black/White	Yellow/Blue

MEDIUM SERIES FOOT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)


Series Name	BFS-03 Series			BFS-07 Series
Order Code	BFS-03/B	BFS-03/B/C2.2	BFS-03/Z/C2.2	BFS-07/Y
				
Description	Basic Foot Switch			Basic Foot Switch
Electrical Ratings	15A/250VAC	15A/250VAC	15A/250VAC	10A/250VAC
Contact Form	SPDT	SPST-NO	SPST-NO (POPO)	DPDT-NO
Cable Core / Cable Length	- / -	2 core / 2 meters	2 core / 2 meters	- / -
Body / Pedal Material	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting
Body / Pedal Colour	Grey	Grey	Grey	Grey
Cover / Guard Material	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting
Cover / Guard Colour	Grey	Grey	Grey	Grey


Series Name	BFS-13 Series			BFS-16 Series
Order Code	BFS-13/A	BFS-13/A/C2.2	BFS-13/Z/C2.2	BFS-16/B/C2.2
				
Description	Basic Foot Switch			Basic Foot Switch
Electrical Ratings	10A/250VAC	10A/250VAC	10A/250VAC	15A/250VAC
Contact Form	SPDT	SPST-NO	SPST-NO (POPO)	SPDT-NO
Cable Core / Cable Length	- / -	2 core / 2 meters	2 core / 2 meters	2 core / 2 meters
Body / Pedal Material	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Polycarbonate
Body / Pedal Colour	Black	Black	Black	Black
Cover / Guard Material	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Aluminium Pressure Deicasting	Polycarbonate
Cover / Guard Colour	Yellow	Yellow	Yellow	Black



Series Name	BFS-04 Series			BFS-05 Series		
Order Code	BFS-04/B	BFS-04/X	BFS-04/XX	BFS-05/B	BFS-05/X	BFS-05/XX
						
Description	Basic Foot Switch			Basic Foot Switch		
Electrical Ratings	15A/250VAC	10A/500VAC	10A/500VAC	15A/250VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT	SPDT-DB	SPDT-DB	SPDT	SPDT-DB	SPDT-DB
Cable Core / Cable Length	- / -	- / -	- / -	- / -	- / -	- / -
Body / Pedal Material	Aluminium Pressure Deicasting					
Body / Pedal Colour	Black Body / Grey Pedal					
Cover / Guard Material	Polycarbonate			Aluminium		
Cover / Guard Colour	Red	Red	Red	Red	Red	Red

HEAVY SERIES FOOT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)


Series Name	BFS-11 Series					
Order Code	BFS-11/X	BFS-11/XX	BFS-11/X2	BFS-11/XX2	BFS-11/X/L	BFS-11/XX/L
						
Description	Heavy Duty Foot Switch		Foot Switch with 3 Positions		Foot Switch with Latch	
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT-DB	DPDT-DB	2 SPDT-DB	2 DPDT-DB	SPDT-DB	DPDT-DB
Body / Pedal Material	Aluminium Pressure Deicasting					
Body / Pedal Colour	Black Body / Black Pedal					
Cover / Guard Material	Polycarbonate					
Cover / Guard Colour	Red					


Series Name	BFS-10 Series			
Order Code	BFS-10/X	BFS-10/XX	BFS-10/X2	BFS-10/XX2
				
Description	Heavy Duty Foot Switch		Foot Switch with 3 Positions	
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT-DB	DPDT-DB	2 SPDT-DB	2 DPDT-DB
Body / Pedal Material	Aluminium Pressure Deicasting			
Body / Pedal Colour	Grey			
Cover / Guard Material	Aluminium Pressure Deicasting			
Cover / Guard Colour	Grey			



Series Name	BFS-10 Series			
Order Code	BFS-10/X/L	BFS-10/XX/L	BFS-10/XX/P5K	BFS-10/XX/P10K
				
Description	Heavy Duty Foot Switch with Latch		Foot Switch with Potentionmeter	
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC, 5KPOT	10A/500VAC, 10KPOT
Contact Form	SPDT-DB	DPDT-DB	DPDT-DB	DPDT-DB
Body / Pedal Material	Aluminium Pressure Deicasting			
Body / Pedal Colour	Grey	Grey	Blue Body / Yellow Pedal	
Cover / Guard Material	Aluminium Pressure Deicasting			
Cover / Guard Colour	Grey	Grey	Blue Cover	Blue Cover

HEAVY SERIES FOOT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)



Series Name	BFS-12 Series with Aluminium Cover					
Order Code	BFS-12/X	BFS-12/XX	BFS-12/X2	BFS-12/XX2	BFS-12/X/L	BFS-12/XX/L
						
Description	Heavy Duty Foot Switch		Foot Switch with 3 Positions		Foot Switch with Latch	
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT-DB	DPDT-DB	2 SPDT-DB	2 DPDT-DB	SPDT-DB	DPDT-DB
Body / Pedal Material	Aluminium Pressure Deicasting					
Body / Pedal Colour	Black Body / Black Pedal					
Cover / Guard Material	Aluminium Pressure Deicasting					
Cover / Guard Colour	Yellow					



Series Name	BFS-12 Series with Polycarbonate Cover					
Order Code	BFS-12/X/PC	BFS-12/XX/PC	BFS-12/X2/PC	BFS-12/XX2/PC	BFS-12/X/L/PC	BFS-12/XX/L/PC
						
Description	Heavy Duty Foot Switch		Foot Switch with 3 Positions		Foot Switch with Latch	
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT-DB	DPDT-DB	2 SPDT-DB	2 DPDT-DB	SPDT-DB	DPDT-DB
Body / Pedal Material	Aluminium Pressure Deicasting					
Body / Pedal Colour	Black Body / Black Pedal					
Cover / Guard Material	Polycarbonate					
Cover / Guard Colour	Yellow					

Series Name	BFS-12 with Aluminium Cover		BFS-12 with Polycarbonate Cover	
Order Code	BFS-12/XX/P5K	BFS-12/XX/P10K	BFS-12/XX/P5K/PC	BFS-12/XX/P10K/PC
				
Description	Foot Switch with Potentionmeter		Foot Switch with Potentionmeter	
Electrical Ratings	10A/500VAC, 5KPOT	10A/500VAC, 10KPOT	10A/500VAC, 5KPOT	10A/500VAC, 10KPOT
Contact Form	DPDT-DB	DPDT-DB	DPDT-DB	DPDT-DB
Body / Pedal Material	Aluminium Pressure Deicasting			
Body / Pedal Colour	Blue Body / Yellow Pedal		Black Body / Black Pedal	
Cover / Guard Material	Aluminium Pressure Deicasting		Polycarbonate	
Cover / Guard Colour	Blue Cover		Yellow Cover	

HEAVY SERIES FOOT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)


Series Name	BFS-14 Series	BFS-08 Series (Double Pedal)		
Order Code	BFS-14/LS	BFS-08/LS	BFS-08/X2	BFS-08/XX2
				
Description	Heavy Duty Foot Switch	Double Pedal Foot Switch		
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	DPDT-CO	2DPDT-CO	2SPDT-DB	2DPDT-DB
Body / Pedal Material	Aluminium Pressure Diecasting Body / Glass Field Nylon Pedal			
Body / Pedal Colour	Black Body / Black Pedal			
Cover / Guard Material	Polycarbonate			
Cover / Guard Colour	Red			

Series Name	BFS-19 Series	BFS-09 Series (Double Pedal)		
Order Code	BFS-19/LS	BFS-09/LS	BFS-09/XX2	BFS-09/XX2
				
Description	Heavy Duty Foot Switch	Double Pedal Foot Switch		
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	DPDT-CO	2 DPDT-CO	2 SPDT-DB	2DPDT-DB
Body / Pedal Material	Aluminium Pressure Diecasting Body / Glass Field Nylon Pedal			
Body / Pedal Colour	Black Body / Black Pedal			
Cover / Guard Material	Polycarbonate	Aluminium Pressure Diecasting Cover		
Cover / Guard Colour	Yellow	Red		


Series Name	BFS-15 Series	BFS-18 Series (Double Pedal)		
Order Code	BFS-15/LS	BFS-18/LS	BFS-18/X2	BFS-18/XX2
				
Description	Heavy Duty Foot Switch	Double Pedal Foot Switch		
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	DPDT-CO	2 DPDT-CO	2 SPDT-DB	2 DPDT-DB
Body / Pedal Material	Aluminium Pressure Diecasting Body / Glass Field Nylon Pedal			
Body / Pedal Colour	Black Body / Black Pedal			
Cover / Guard Material	Aluminium Pressure Diecasting			
Cover / Guard Colour	Yellow	Red		

HEAVY SERIES FOOT SWITCH

ORDER CODE (Standard Packing : 1No. Per Box)

Series Name	BFS-21 Series		
Order Code	BFS-21/B	BFS-21/X	BFS-21/XX
			
Description	Heavy Duty Polycarbonate (Plastic) Foot Switch		
Electrical Ratings	15A/250VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT	SPDT-DB	DPDT-DB
Body / Pedal Material	Glass Field Nylon Body & Pedal		
Body / Pedal Colour	Black Body / Black Pedal		
Cover / Guard Material	Polycarbonate		
Cover / Guard Colour	Red		

Series Name	BFS-22 Series		
Order Code	BFS-22/B	BFS-22/X	BFS-22/XX
			
Description	Heavy Duty Polycarbonate (Plastic) Foot Switch		
Electrical Ratings	15A/250VAC	10A/500VAC	10A/500VAC
Contact Form	SPDT	SPDT-DB	DPDT-DB
Body / Pedal Material	Glass Field Nylon Body & Pedal		
Body / Pedal Colour	Black Body / Black Pedal		
Cover / Guard Material	Polycarbonate		
Cover / Guard Colour	Yellow		

Series Name	BFS-20 Series		
Order Code	BFS-20/LS	BFS-20/X	BFS-20/XX
			
Description	Wall Mount Heavy Duty Foot Switch (Railway Application)		
Electrical Ratings	10A/500VAC	10A/500VAC	10A/500VAC
Contact Form	DPDT-CO	SPDT-DB	DPDT-DB
Body / Pedal Material	Aluminium Body and Pedal		
Body / Pedal Colour	Grey Body and Pedal		
Cover / Guard Material	Aluminium		
Cover / Guard Colour	Grey		

SAFTEY LIGHT CURTAIN



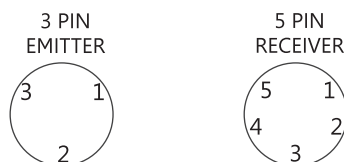
FEATURES

- ✓ Compliant with IEC 61496-1
- ✓ Directly works with PLC/ Controller
- ✓ Light weight Aluminum body
- ✓ Rugged Design
- ✓ Reliable Design
- ✓ Reverse Polarity Protection
- ✓ Easy to Operate

TECHNICAL SPECIFICATION

Parameter	Value			Unit	
	Min	Typ	Max		
ELECTRICAL	Operating Voltage	9	24	30	VDC
	Output Current			100	mAmp
	Response Time (ON - OFF)	10		15	msec
	Response Time (OFF - ON)	50		100	msec
	No Of Beam	6		36	Nos.
	Resolution(Pitch)	20		40	mm
	Protected Height	100		1500	mm
	Sensing Distance			5000	mm
	Output Type	Dual PNP- NC			
PROTECTION	Reverse Polarity	YES			
	Output Short Circuit Protection	YES			
	LED Indication for Each Channel	YES			
	Self Test For Internal Logic Failure	YES			
ENVIRONMENT	WORKING TEMP.	0 ~ +60 °C			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUM.	0 ~ +80 °C, 10 ~ 95% RH			
	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes			
SAFETY	SAFETY STANDARDS	Complying with IEC 61496-1			
	CE	YES			

CONNECTOR DIAGRAM



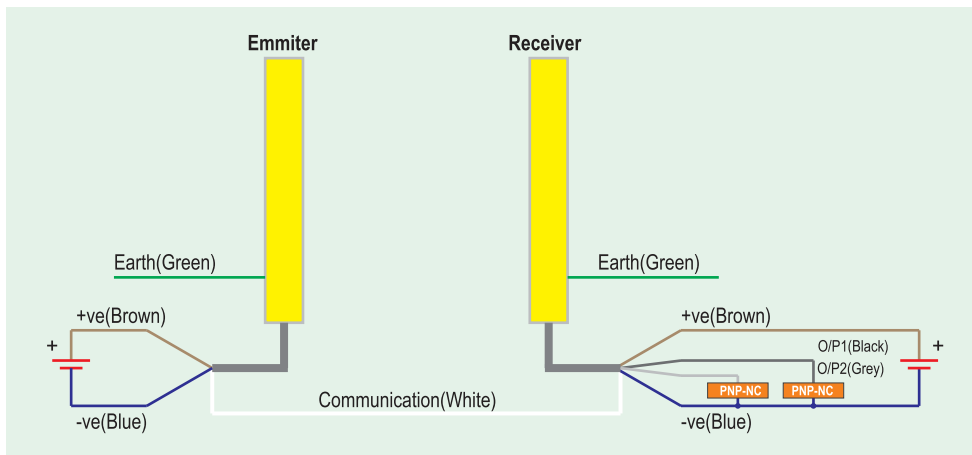
PIN No.	1	2	3	4	5
Color	Brown	Blue	White	Black	Grey
Transmitter	+ve	-ve	Communication	-	-
Receiver	+ve	-ve	Communication	Output 1	Output 2

SAFTEY LIGHT CURTAIN

ORDER CODE (Standard Packing : 1 Set Per Box)

PITCH	20mm (Hand Detection)			30 mm (Hand/Object Detection)			40 (Object Detection)		
BEAMS	Order Code	Protection Height (mm)	Overall Height (mm)	Order Code	Protection Height (mm)	Overall Height (mm)	Order Code	Protection Height (mm)	Overall Height (mm)
06	BLCD-6-20	100	180	BLCD-6-30	250	150	BLCD-6-40	200	300
12	BLCD-12-20	220	300	BLCD-12-30	430	330	BLCD-12-40	440	540
18	BLCD-18-20	340	420	BLCD-18-30	610	510	BLCD-18-40	680	780
24	BLCD-24-20	460	540	BLCD-24-30	790	690	BLCD-24-40	920	1020
30	BLCD-30-20	580	660	BLCD-30-30	970	870	BLCD-30-40	1160	1260
36	BLCD-36-20	700	780	BLCD-36-30	1150	1050	BLCD-36-40	1400	1500

WIRING DIAGRAM



SAFTEY LIGHT CURTAIN CONTROLLER



ORDER CODE (Standard Packing : 1 Set Per Box)

Input Voltage	With Normal Relay	With Safety Relay
For 110 VAC	BLCC-P-110	BLCC-P-110-SR
For 230 VAC	BLCC-P-230	BLCC-P-230-SR

FEATURES

- ✓ Compliant with IEC 61496-1
- ✓ 2 Relay Output
- ✓ 110V & 230V AC Input
- ✓ LED Indication for each output
- ✓ Bypass Option
- ✓ Reliable Design
- ✓ Inbuilt Supply for Light Curtain
- ✓ Easy to Operate


TECHNICAL SPECIFICATION

- ✓ Input Voltage : 110V or 230VAC
- ✓ Relay Output :
 - Contact : SPST-NC
 - Rating : 5Amp / 230VAC
- ✓ No of Chanel : 2 Nos.

SWITCH MODE POWER SUPPLY


DIN RAIL SMPS

DIN RAIL Type		Standard Series				Premium Series			
Power		75W		150W		60W		120W	
I/P Voltage		110V	230V	110V	230V	110V	230V	110V	230V
Order Code		SDR-75-24-110	SDR-75-24-230	SDR-150-24-110	SDR-150-24-230	PDR-60-24-110	PDR-60-24-230	PDR-120-24-110	PDR-120-24-230
Parameter									
OUTPUT	Rated Current (Amp)	3.1		6.2		2.5		5.0	
	Rated Power (W)	75		150		60		120	
	Ripple & Noise (mV)	120	120	120	120	60	60	60	60
	Voltage Adj. Range(%)	±10	±10	±10	±10	±10	±10	±10	±10
	Line Regulation (%)	±0.8	±0.8	±0.8	±0.8	±0.4	±0.4	±0.4	±0.4
	Load Regulation (%)	±0.8	±0.8	±0.8	±0.8	±0.4	±0.4	±0.4	±0.4
INPUT	Voltage Range	110V: 90V - 150VAC & 110 -170 VDC, 230V: 180VAC - 270VAC & 200 - 300 VDC							
	Frequency	50-60Hz							
	Efficiency(%)	78	77	79	76	78	79	78	79
PROTECTION	Overload	110% Rated Output Power				150% Rated Output Power			
	OverVoltage	24V: 27.6~32.4V							
	Protection Type	Hiccup mode, recovers automatically after fault condition removed							
	EMI Filter	Built in EMI Filter							
	Surge Protection	Built in Surge Protection							
	Withstand Voltage	I/P-O/P: 2KVAC, I/P-FG: 1KV, O/P-FG/0.5KV							
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100MΩ/500VDC								



PANEL MOUNT ENCLOSED TYPE SMPS

Enclosed Type		Standard Series						Premium Series					
Power		60W		120W		150W		50W		100W		120W	
I/P Voltage		12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V
Order Code		SES-60-12	SES-60-24	SES-120-12	SES-120-24	SES-150-12	SES-150-24	PES-50-12	PES-50-24	PES-100-12	PES-100-24	PES-120-12	PES-120-24
Parameter													
OUTPUT	Rated Current (Amp)	5	2.5	10.0	5.0	12.5	6.2	4.2	2.1	8.4	4.2	10.0	5.0
	Rated Power (W)	60	60	120	120	150	150	50	50	100	100	120	120
	Ripple & Noise (mV)	120	120	120	120	120	120	60	60	60	60	60	60
	Voltage Adj. Range(%)	±10	±10	±10	±10	±10	±10	±10	±10	±10	±10	±10	±10
	Line Regulation (%)	±1	±1	±1	±1	±1	±1	±0.4	±0.4	±0.5	±0.5	±0.5	±0.5
	Load Regulation (%)	±1	±1	±1	±1	±1	±1	±0.4	±0.4	±0.5	±0.5	±0.5	±0.5
INPUT	Voltage Range	90V-265VAC, 150-300 VDC						80V-300VAC, 125-373 VDC					
	Frequency	50-60Hz											
	Efficiency(%)	77	80	78	79	76	79	77	80	78	79	76	79
PROTECTION	Overload	110% Rated Output Power						150% Rated Output Power					
	OverVoltage	12V: 13.8V ~16.2V & 24V: 27.6~32.4V											
	Protection Type	Hiccup mode, recovers automatically after fault condition removed											
	EMI Filter	Built in EMI Filter											
	Surge Protection	Built in Surge Protection											
	Withstand Voltage	I/P-O/P: 3KVAC, I/P-FG: 2KV, O/P-FG/0.5KV											
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100MΩ/500VDC												





Manufactured by:

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