







General Information

Key

 19mm	Mounting diameter	 IP68	IP Degree
 Ø 21.5mm	Outer diameter	 eIPOC	Extended IP Degree
 10mm	Depth	 LED	LED illuminated switch

Definition of Terms

Circuit: The contact arrangement with the switch actuator and contacts in their free position.

Maintained Switch: A switch with contacts that sustain in operated position when actuating force is removed.

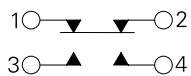
Momentary Switch: A switch with contacts that return from operated to free position when actuation force is removed

Fast Connect Terminals: A plug-in type terminal designed for quick switch wiring.

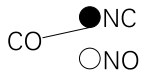
Normally Closed Contacts (N.C.): Provide a normally closed circuit when actuator is in free position.

Normally Open Contacts (N.O.): Provide a normally open circuit when actuator is in free position.

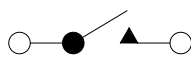
Circuit Types



Form Z: This breaks the circuit in two places. Also referred to as **Double Break Contacts**.



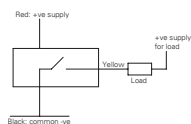
Form C: Switch which may either make or break a circuit, depending on how it is wired. Also referred to as **Single-Pole Double-Throw (SPDT)**.



Form A: Normally open (N.O.) switch with only one moving and one stationary contact. Also referred to as **Single-Pole Single-Throw (SPST)**.



Form A: Normally closed (N.C.) switch with only one moving and one stationary contact.




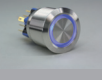


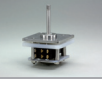

Open Collector (OC): Is based on electronic circuitry. Switched output (transistor collector) is pulled to ground when operated.

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	Series	Depth	Mount. Diameter	Out. Diameter	IP Degree	LED	Switch Function	Termination	Button Type	Circuit	Page Number	
	ES09	10.7mm		12mm	14mm			Momentary	15cm leads	Form A	6	
	CM10	20mm		18mm	IP65	Ring Dot	Momentary	2.0x0.5mm	Flat Domed Raised	Form A Form B	8	
	CMI10	20mm		16mm	18mm	IP65	Ring Dot	Momentary	2.0x0.5mm	Flat Raised	Form A	10
	CM15	35mm			18mm	IP67		Momentary Maintained	1.8x0.4mm	Flat Raised	Form C 2x Form C	12
	CMI15	35.7mm			18mm	IP67	Ring Dot	Momentary Maintained	1.8x0.4mm	Flat Raised	Form C 2x Form C	14
	ES06	8.8mm 10mm			21.5mm	IP68 eIP68C		Momentary	15cm leads PC pins	Flat	Form A	16
	ES08	13.8mm			21.5mm	IP68		Momentary	15cm leads	Flat	Form A	18
	ES02	13.9mm			21.8mm			Momentary Maintained	15cm leads	Flat	OC	20
	CM20	24mm			22mm	IP65		Momentary	Screw	Flat Domed Raised	Form A	22
	CMI20	27.3mm		19mm	22mm	IP65	Ring	Momentary	Screw	Flat	Form A	24
	CM25	32.1mm 39.5mm			22mm	IP65 IP67		Momentary Maintained	Screw 2.8x0.5mm	Flat	Form Z	26
	CMI25	33mm 39.5mm			22mm	IP65 IP67	Ring Dot	Momentary Maintained	Screw 2.8x0.5mm	Flat Raised	Form Z	28
	CM30	38mm			22mm	IP67		Momentary Maintained	2.8x0.5mm	Flat	Form C 2x Form C	30
	CMI30	38mm			22mm	IP67	Ring Dot	Momentary Maintained	2.8x0.5mm	Flat	Form C 2x Form C	32
	CM35	35.3mm 40.3mm			25mm	IP65 IP67		Momentary Maintained	2.8x0.5mm	Flat	Form Z	34
	CMI35	35.3mm 40.3mm		22mm	25mm	IP65 IP67	Ring Dot	Momentary Maintained	2.8x0.5mm	Flat	Form Z	36

Series	Depth	Mount. Diameter	Out. Diameter	IP Degree	LED	Switch Function	Termination	Button Type	Circuit	Page Number
 CM40	38.5mm 40.8mm	25mm	28mm	IP65 IP67		Momentary Maintained	2.8x0.5mm	Flat	Form Z 2x Form Z	38
 CMI40	38.5mm 40.8mm		28mm	IP65 IP67	Ring Dot	Momentary Maintained	2.8x0.5mm	Flat	Form Z 2x Form Z	40
Non-moving Switches										
 NK02	10mm	19mm	21.5mm	IP69K		Momentary Maintained	15cm leads	Flat	OC	42
 EP08	13.8mm		21.5mm	IP68		Momentary	15cm leads	Flat	OC	44
Joysticks										
 M7	34.3mm					Momentary	Solder	Joystick	Form C 2x Form C	46
Accessories										
 MPI-VSG	14.5mm						Spring loaded			48