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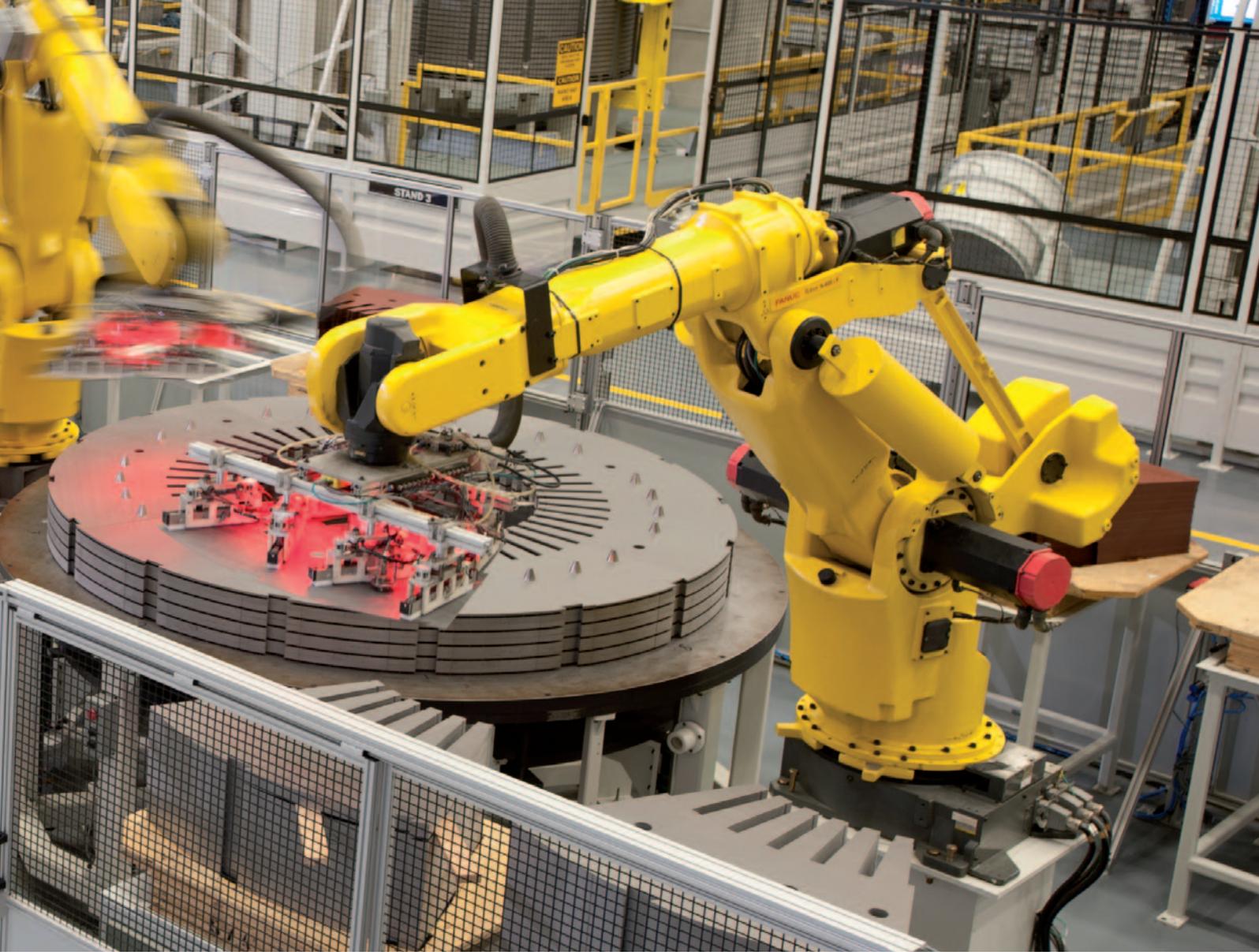


3LD4 Control Switches



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Safe and Reliable Switching

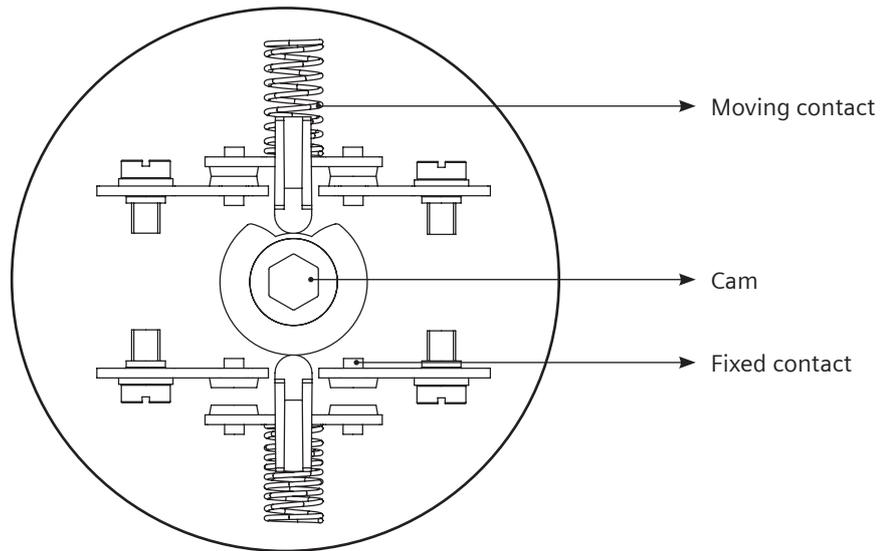
Safe, Reliable

Introduction

3LD4 Control switches are Cam Operated Rotary Switches used to perform Make and Break operation in a sequential manner by rotating the switch to different positions. The main parts of a CAM switch consists of

- Fixed contacts
- Moving contacts
- Cam

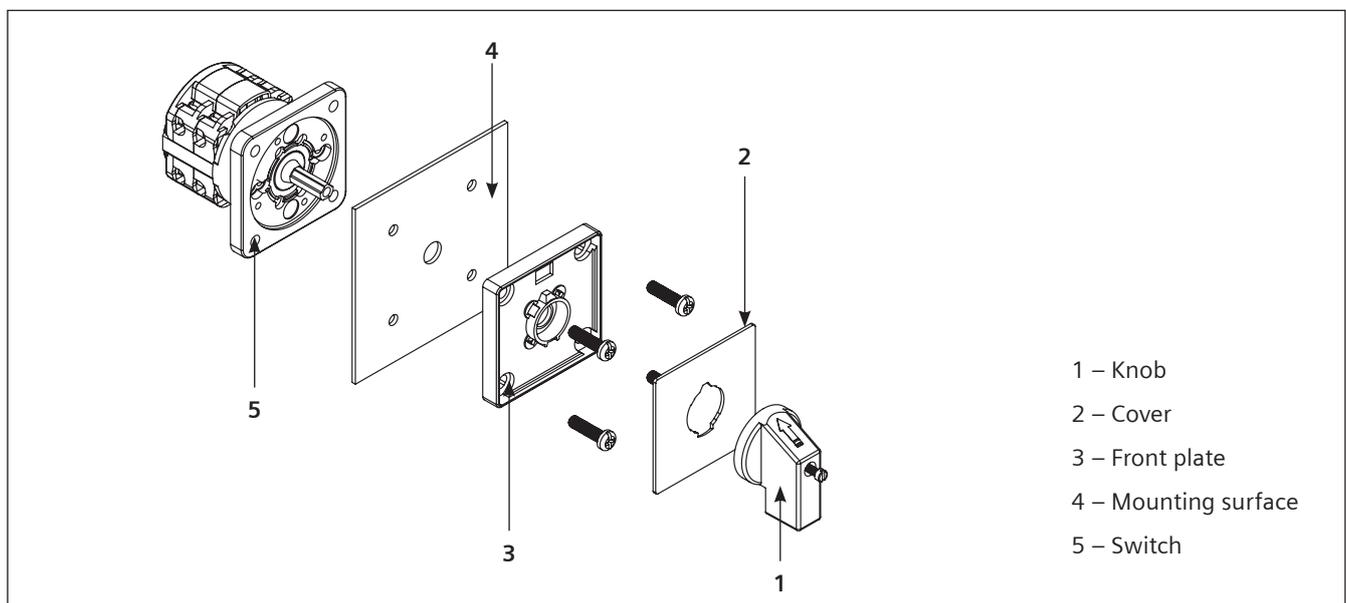
The rotary motion of the cam is responsible for opening and closing of the contacts and depending upon the design of the cam a wide variety of switching functions can be implemented.



Our 3LD4 range comprises of the following types of switches

- ON OFF switch
- Instrumentation Selector Switches
- Changeover switches

Construction



Safe, Reliable

Instrumentation selector switch

In 3 phase systems the customer requires information on the current and voltages in different phases of the system. When using analogue meters it is not economical or practical to use multiple meters for different phases. This is where the Instrumentation selector switches are used. They can be used for connecting different phases to the same meter so that one single meter can be used for multiple read outs.

The Instrumentation Selector Switches are mainly of two types

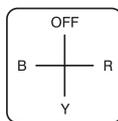
- Ammeter Selector Switch (ASS) – For measuring current in different phases
- Voltmeter Selector Switch (VSS) – For measuring Line & Phase voltages

Ammeter Selector Switch (ASS)

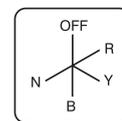
Function

Used for getting different phase current readouts using a single analogue Ammeter

Variants



4 Position
Measure 3 Phase currents



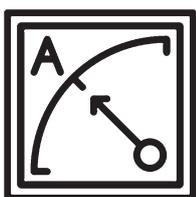
5 Position
Measure 3 Phase & Neutral current

Range

Type	6A	10A	16A	20A
Current in each phase without neutral (RYB) with off, 4 pos	✓	✓	✓	✓
Current in each phase with neutral (RYBN) with off, 5 pos	✓	✓	✓	✓

Applications

- In MCCs & PCCs
- In OEM equipment
- In metering panels



1 Meter
Multiple measurements!!

Safe, Reliable

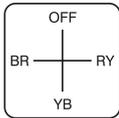
Instrumentation selector switch (contd.)

Voltmeter Selector Switch (VSS)

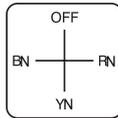
Function

Used for measuring different line & phase voltages using a single analogue Voltmeter

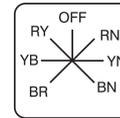
Variants



4 Position
Measure L - L Voltages



4 Position
Measure L - N Voltages



7 Position
Measure L - L & L - N Voltages

Range

Type	6A	10A	16A	20A
Voltage between phases and individual phases to neutral with OFF, 7 pos	✓	✓	✓	✓
Voltage between phases to neutral with OFF, 4 pos	✓	✓	✓	✓
Voltage between phases with OFF, 4 pos	✓	✓	✓	✓

Applications

- In MCCs & PCCs
- In OEM equipment
- In metering panels



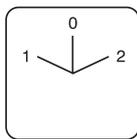
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Changeover switch

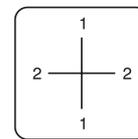
Function

These switches can also be used for supplying two different loads via a single source or for switching between logic circuits.

Variants



**2 Way changeover
With OFF (60° Operation)**



**2 Way changeover
Without OFF (90° Operation)**

Range

Variant	No of poles	Current ratings
2 Way changeover With OFF (60° Operation)	1 - 3	6A – 100A
2 Way changeover Without OFF (90° Operation)	1 - 3	6A – 100A

Phase changeover switch

Function

Phase Changeover switch (PCS) finds application in Phase Changeover DBs wherein each set of outgoing MCBs are supplied via a PCS Switch.

This in turn is connected to the 3 Phase supply from utility, In case there is a power failure in a phase the customer can switch to a different phase ensuring continuity of supply.



Range

Variant	No of poles	Current ratings
3 Way Phase Changeover	1	6A – 100A

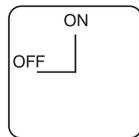
Safe, Reliable

ON OFF switch

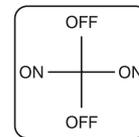
Function

ON-OFF switches are used for switching of power and auxiliary circuits as well as equipments

Variants



ON OFF
90° Operation



ON OFF
90° with complete rotation

Range

Variant	No of poles	Current ratings
ON OFF 90° Operation	1 - 3	6A – 100A
ON OFF 90° with Complete rotation	1 - 3	6A – 100A

Highlights

Easy visibility of switch position

Suitable for ambient temperatures up to 50° C

Terminals designed for easy and fast installation

Silver Double break contacts ensures reliable operation

Clear labeling facilitates error free connections

Safe, Reliable

Technical data

Standards	IS/IEC 60947-3, IS/IEC 60947-5									
Switch type	3LD4001	3LD4102	3LD4103	3LD4204	3LD4205	3LD4206	3LD4207	3LD4208	3LD4309	
Frame Size	0	1			2				3	
Ambient Temperature range	-5 to +50°C									
Pollution degree	2									
IP rating (front)	IP50									
Nominal Current (I _n)	A	6	10	16	20	25	32	40	63	100
Rated Insulation Voltage U _i	V	440	690	690	690	690	690	690	690	690
Rated operational voltage U _e	V AC	440 V								
Rated Frequency	Hz	50/60								
Rated Impulse Withstand Voltage U _{imp}	kV	4	4	4	4	6	6	6	6	6
Rated Uninterrupted current I _u (A)	A	6	10	16	20	25	32	40	63	100
Rated Short time Withstand current (I _{cw})	A	72	120	192*	240*	300	384	480	756	1200
Conditional short circuit current with fuses	kA	3	3	5	5	10	10	10	10	15
Rated operational Current I_e (A)										
AC-21A @ 440V	A	6	10	16	20	25	32	40	63	100
AC-21A @ 240V	A	6	10	16	20	25	32	40	63	100
AC-15 @ 240V	A	2	2.5	5	5	8	14	16	16	–
AC-15 @ 440V	A	1	1.5	4	4	5	6	7	7	–
AC-3 @ 440V		Upon enquiry								
Max. backup fuse, (A)		6	10	16	20	25	32	50	63	100
Mechanical life	operating cycles	100,000								
Electrical life	operating cycles	10,000								
Switching frequency	1/hr	300								
Conductor cross-sections for main conductors										
Solid or stranded	mm ²	1...1.5	0.7...1.5	1.5 ... 4	1.5 ... 4	2.5 ... 4	2.5 ... 6	4 ... 10	4 ... 16	10 ... 35
Finely stranded with end sleeves (mm ²)	mm ²	1...1.5	0.7...1.5	1 ... 2.5	1 ... 2.5	1.5 ... 4	1.5 ... 4	2.5 ... 6	2.5 ... 16	10 ... 35
Tightening torque	Nm	0.5	0.7	0.7	0.7	1.2	1.2	1.2	1.2	2.5

* - for 0.5 s

Safe, Reliable

Connection diagram

Instrumentation selector switch

Ammeter Selector Switch - 4 Position - Line current with off							No. of packets
Output terminals	A2	A1					
Faceplate 	Operating quadrant 						
Input terminals	R		Y		B		
OFF	X		X		X		
R		X	X		X		
Y	X			X	X		
B	X		X			X	

Ammeter Selector Switch - 5 Position - Line & Neutral current with OFF							No. of packets
Output terminals	A1	A2					
Faceplate 	Operating quadrant 						
Input terminals	R		Y		B	N	
OFF	X		X		X	X	
R		X	X		X	X	
Y	X			X	X	X	
B	X		X			X	
N	X		X			X	

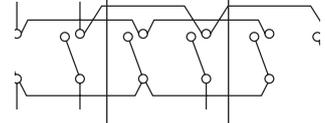
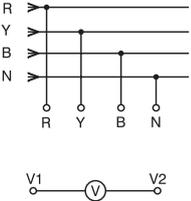
Voltmeter Selector Switch - Line Voltages with off (4 position)							No. of packets
Output terminals	V2	V1					
Faceplate 	Operating quadrant 						
Input terminals	R		Y		B		
OFF							
RY	X			X			
YB			X			X	
BR		X		X			

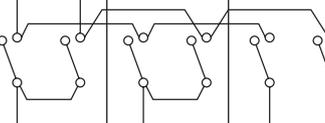
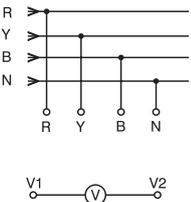
O - OFF

Safe, Reliable

Connection diagram (contd.)

Instrumentation selector switch (contd.)

Voltmeter Selector Switch – Phase Voltages with off (4 position)							No. of packets	
Output terminals	V2	V1						
Faceplate 	Operating quadrant 							3
Input terminals	N	R	N	Y	N	B		
OFF								
RN	X	X						
YN			X	X				
BN					X	X		

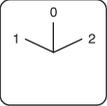
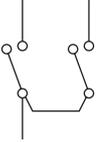
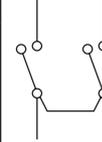
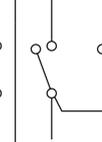
Voltmeter Selector Switch – Line & Phase Voltages with off (7 position)							No. of packets	
Output terminals	V2	V1						
Faceplate 	Operating quadrant 							3
Input terminals	B		Y		R	N		
BR		X			X			
YB		X	X					
RY				X	X			
OFF								
RN					X	X		
YN			X			X		
BN	X					X		

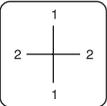
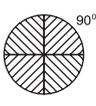
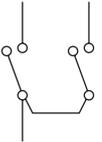
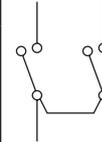
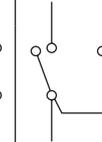
O - OFF

Safe, Reliable

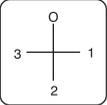
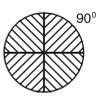
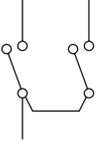
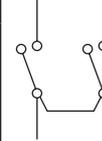
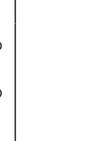
Connection diagram (contd.)

Changeover Switch

Changeover Switch – 60 degree with off							
Terminals	1A	2A	1B	2B	1C	2C	No. of packets
Faceplate  Operating quadrant 							1-3
Input terminals	LA	LA	LB	LB	LC	LC	
POLES	1		2		3		
0							
1	X		X		X		
2		X		X		X	

Changeover Switch – 90 degree without off							
Output terminals	1A	2A	1B	2B	1C	2C	No. of packets
Faceplate  Operating quadrant 							1-3
Input terminals	LA	LA	LB	LB	LC	LC	
POLES	1		2		3		
0							
1	X		X		X		
2		X		X		X	

Phase Changeover Switch

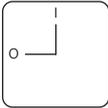
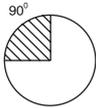
Output terminals	1A	2A	3A	No. of packets
Faceplate  Operating quadrant 				2
Input terminals	LA	LA	LA	
POLES	1		1	
0				
1	X			
2		X		
3			X	

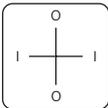
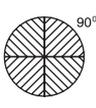
O - OFF

Safe, Reliable

Connection diagram (contd.)

ON OFF Switch

ON-OFF Switch (90 Degree)						
Output terminals	1A	1B	1C	No. of packets		
Faceplate 	Operating quadrant 					1-2
Input terminals	LA	LB	LC			
POLES	1	2	3			
OFF						
ON	X	X	X			

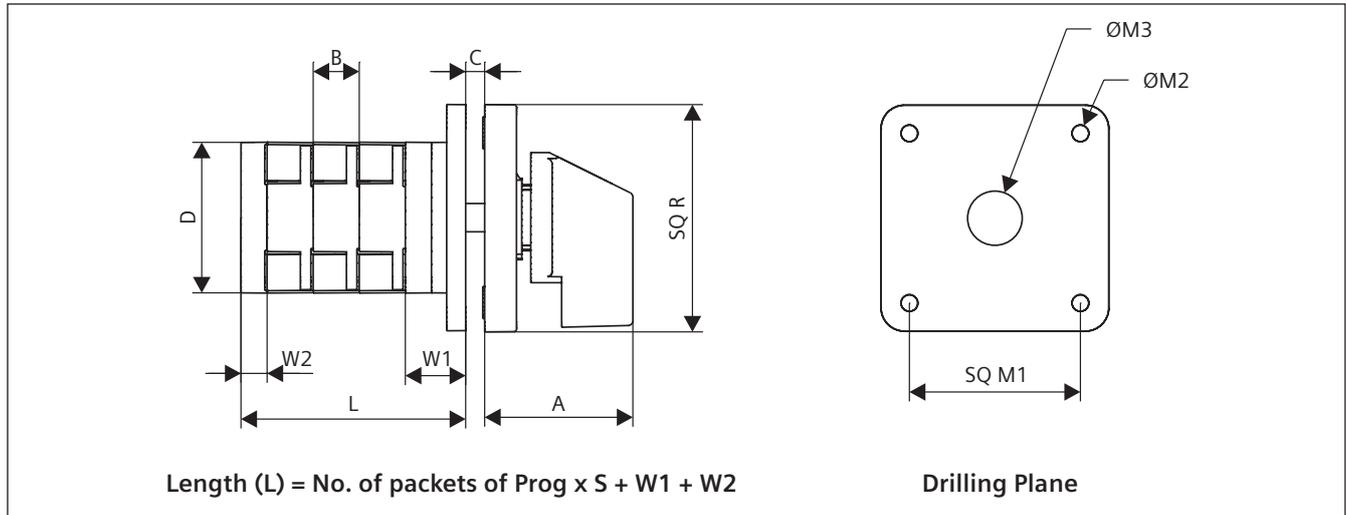
ON-OFF Switch (90 Degree Complete Rotation)						
Output terminals	1A	1B	1C	No. of packets		
Faceplate 	Operating quadrant 					1-2
Input terminals	LA	LB	LC			
POLES	1	2	3			
OFF						
ON	X	X	X			

O - OFF, I - ON

Safe, Reliable

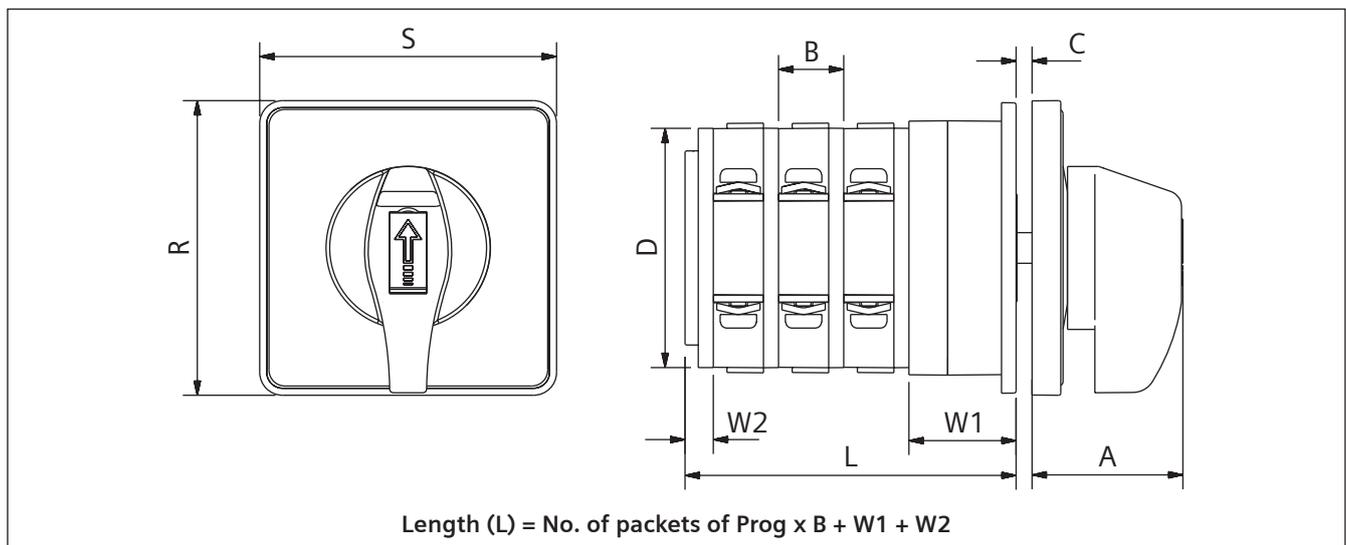
Dimension drawings

Size (0-1)



Type	A	B	C _(Max.)	D	M1	M2	M3	R	S	W1	W2
3LD4001 (6A)	29	10	4	32	36	3.5	8	48	48	13	7
3LD4102 (10A)	29	10	4	43	36	4	7	60	48	19	5
3LD4103 (16A)	29	10	4	43	36	4	7	60	48	19	5
3LD4104 (20A)	29	10	4	43	36	4	7	60	48	19	5

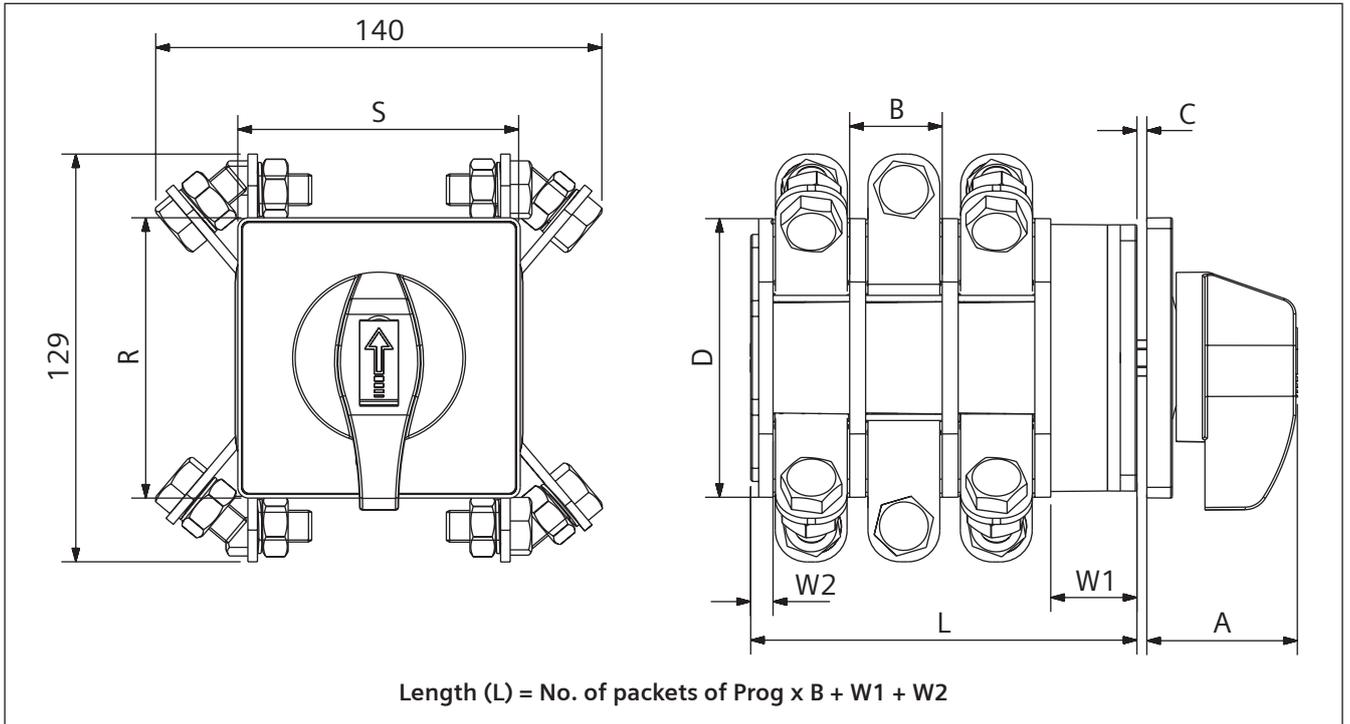
Size (2)



Type	A	B	C _(Max.)	D	M1	M2	M3	R	S	W1	W2
3LD4205 (25A)	34	15	4	53	48	4	12	64	64	24	6
3LD4206 (32A)	34	15	4	53	48	4	12	64	64	24	6
3LD4207 (40A)	34	15	4	53	48	4	12	64	64	24	6
3LD4208 (63A)	34	15	4	53	48	4	12	64	64	24	6

Safe, Reliable

Size (3)



Type	A	B	C _(Max.)	D	M1	M2	M3	R	S	W1	W2
3LD4309 (100A)	49	30	4	88	68	5.5	18	88	88	27	7

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