



**SPEED-O-CONTROLS
PVT. LTD.**



CRANE CONTROL GEAR

COUNTER WEIGHT LIMIT SWITCH



DISCOVER OUR RANGE OF LIMIT SWITCHES

INDEX

**WEIGHT LIMIT
SWITCH 10A AL**

MODEL : CWLS-10A



[\(CLICK HERE\)](#)

**WEIGHT LIMIT
SWITCH 40A AL**

MODEL : CWLS-40A



[\(CLICK HERE\)](#)

**WEIGHT LIMIT
SWITCH 40A**

MODEL : HCWLS-40A



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LIMIT SWITCHES SPARE COMPONENTS 10A



[\(CLICK HERE\)](#)

LIMIT SWITCHES SPARE COMPONENTS 40A



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LIMIT SWITCHES SPARE COMPONENTS 40A HCWLS/1SH/4



[\(CLICK HERE\)](#)

Introduction

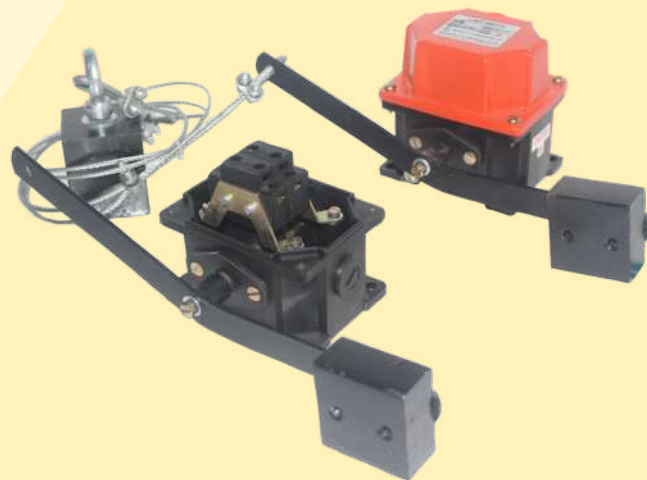
Weight Operated Limit Switches are used on control/power circuit of reversing drives so as to limit their rotation/movement within a predetermined position. complying to IEC/EN 60947-5-1, IEC/EN 60529, IEC 60068-2-78, IEC 60068-2-30

Operation

When the snatch block of the crane reaches its top position the snatch block pushes a plate which is hanging from one end of the lever of the limit switch. Due to the weight placed on the other end of the lever this lever is pushed up. When the lever is pushed up the shaft to which this lever is connected rotates thereby rotating the cams which eventually open the contacts.

Technical Data

Body Material	Aluminium Die Cast (Powder Coated)
Protection Degree	IP-55 Confirming to (IS/IEC 60529) 2001
Mounting Position	Floor
Cable Entries	Twin, 3/4" BS Conduit
No. of Contacts	MAX 2
Contact Material	Silver Cadmium
Wire Connection	Screw Terminal
Rated Voltage	500 V.A.C. Max
Thermal Test Current	10 A



**COUNTER WEIGHT WITH WIRE ROPE NOT INCLUDED
SHOWN ONLY FOR ILLUSTRATION**

Switching Diagram

CWLS/1SH/1 (1NC)

CONTACT NO.	0	1
1	X	

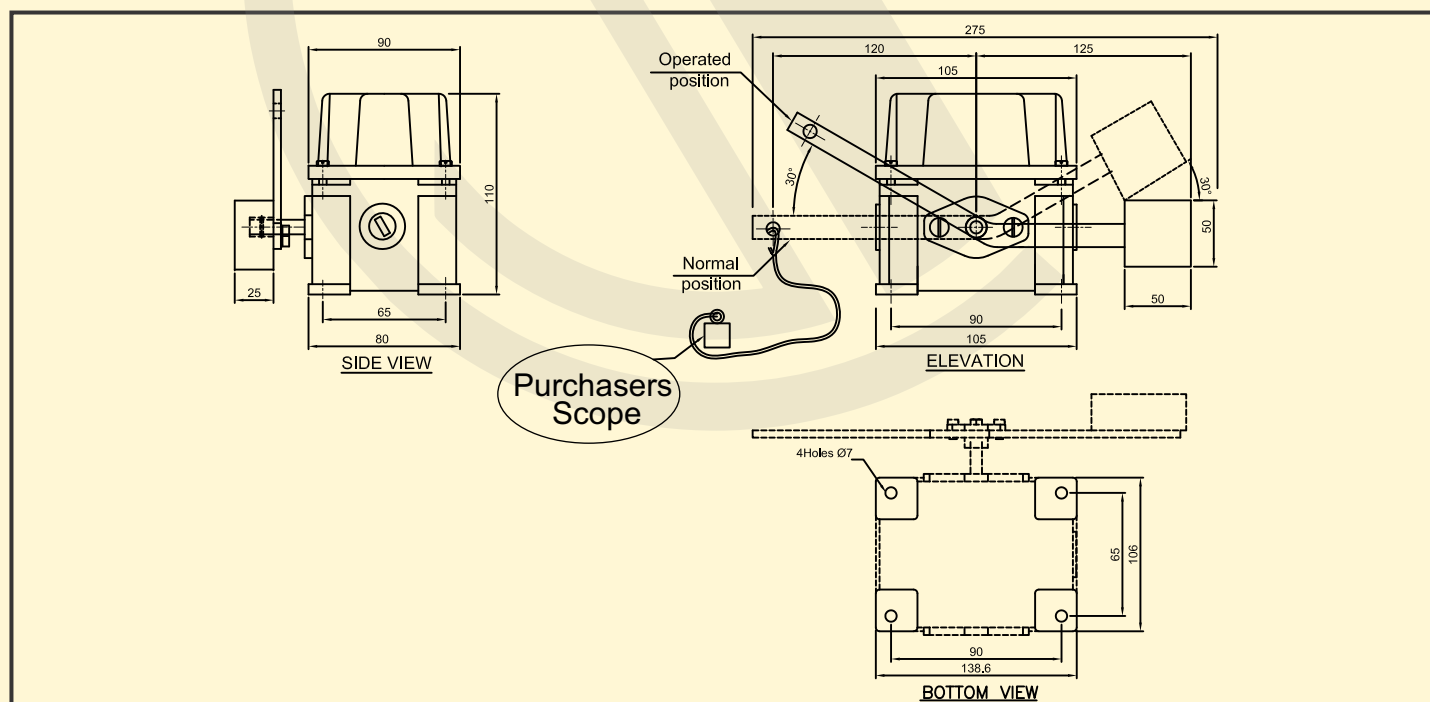
CWLS/1SH/2 (2NC)

CONTACT NO.	0	1
1	X	
2	X	

CWLS/1SH/11(1NO + 1NC)

CONTACT NO.	0	1
1	X	
2		X

*** Also available in Thermoplastic**



[CLICK HERE FOR INDEX](#)

Introduction

Weight Operated Limit Switches are used on control/power circuit of reversing drives so as to limit their rotation/movement within a predetermined position. complying to IEC/En 60947-5-1, IEC/EN 60529, IEC 60068-2-78, IEC 60068-2-30

Operation

When the snatch block of the crane reaches its top position the snatch block pushes a plate which is hanging from one end of the lever of the limit switch. Due to the weight placed on the other end of the lever this lever is pushed up. When the lever is pushed up the shaft to which this lever is connected rotates thereby rotating the cams which eventually open the contacts.

Technical Data

Body Material	Aluminium Die Cast (Powder Coated)
Protection Degree	IP-55 Confirming to (IS/IEC 60529) 2001
Mounting Position	Floor
Cable Entries	Twin, 3/4" BS Conduit
No. of Contacts	MAX 2
Contact Material	Silver Cadmium
Wire Connection	Screw Terminal
Rated Voltage	500 V.A.C. Max
Thermal Test Current	40 A



**COUNTER WEIGHT WITH WIRE ROPE NOT INCLUDED
SHOWN ONLY FOR ILLUSTRATION**

Switching Diagram

CWLS/1SH/1 (1NC)

CONTACT NO.	0	1
1	X	

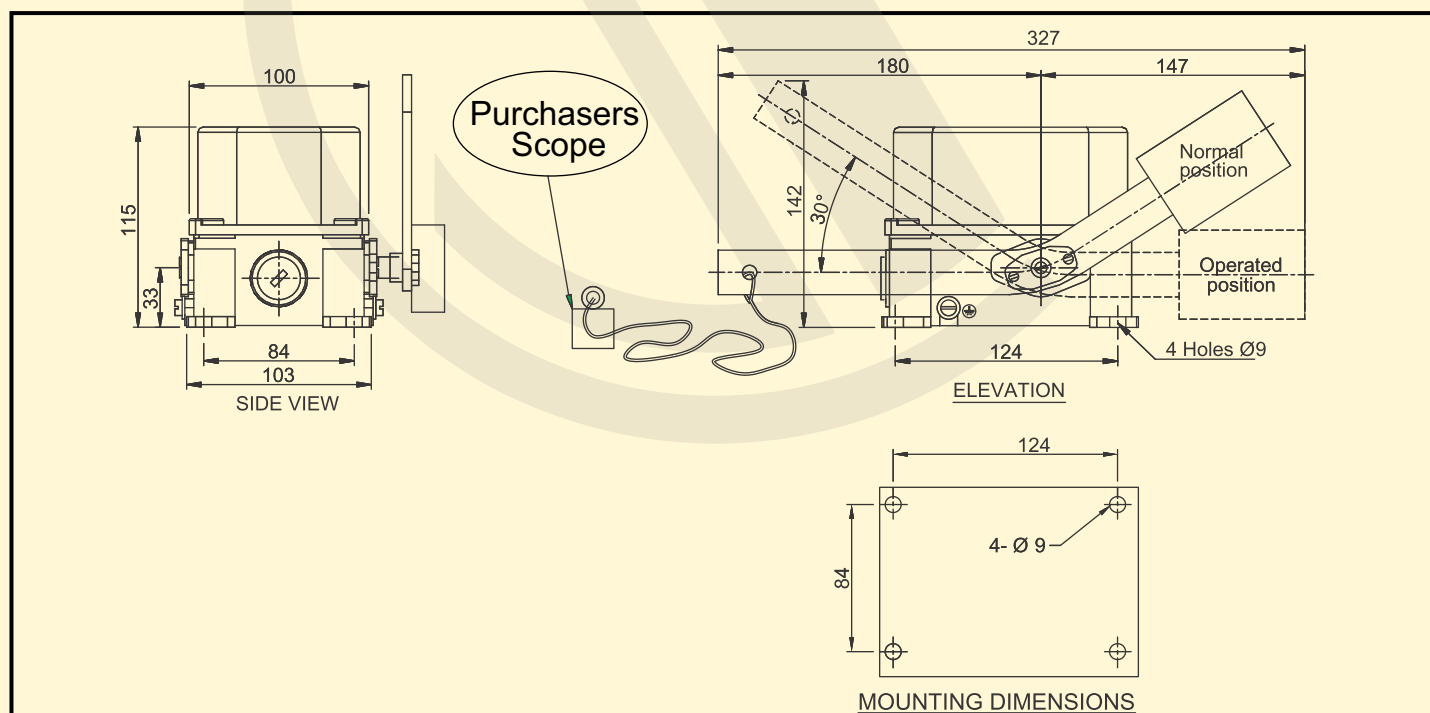
CWLS/1SH/2 (2NC)

CONTACT NO.	0	1
1	X	
2	X	

CWLS/1SH/11 (1NO + 1NC)

CONTACT NO.	0	1
1	X	
2		X

*** Also available in Thermoplastic**



Introduction

Heavy Duty Weight Operated Limit Switches operates the control change-over contacts of motor of an moving equipments when a cam moving with loads actuates the lever of Limit Switch. This turns the cam/on a square shaft and operate the NO/NC change over contact elements.



Technical Data :

Body Material	Aluminium Die Cast (Powder Coated)
Protection Degree	IP-54 Confirming to IS/IEC 60529 (2001)
Mounting Position	Floor
Cable Entries	1 x 3/4" Conduit
No. of Contacts	4 NC OR 2 NO + 2 NC
Contact Material	Silver Cadmium
Wire Connection	Screw Terminal
Rated Voltage	500 V.A.C. Max
Thermal Test Current	40 Amps.

**COUNTER WEIGHT WITH WIRE ROPE NOT INCLUDED
SHOWN ONLY FOR ILLUSTRATION**

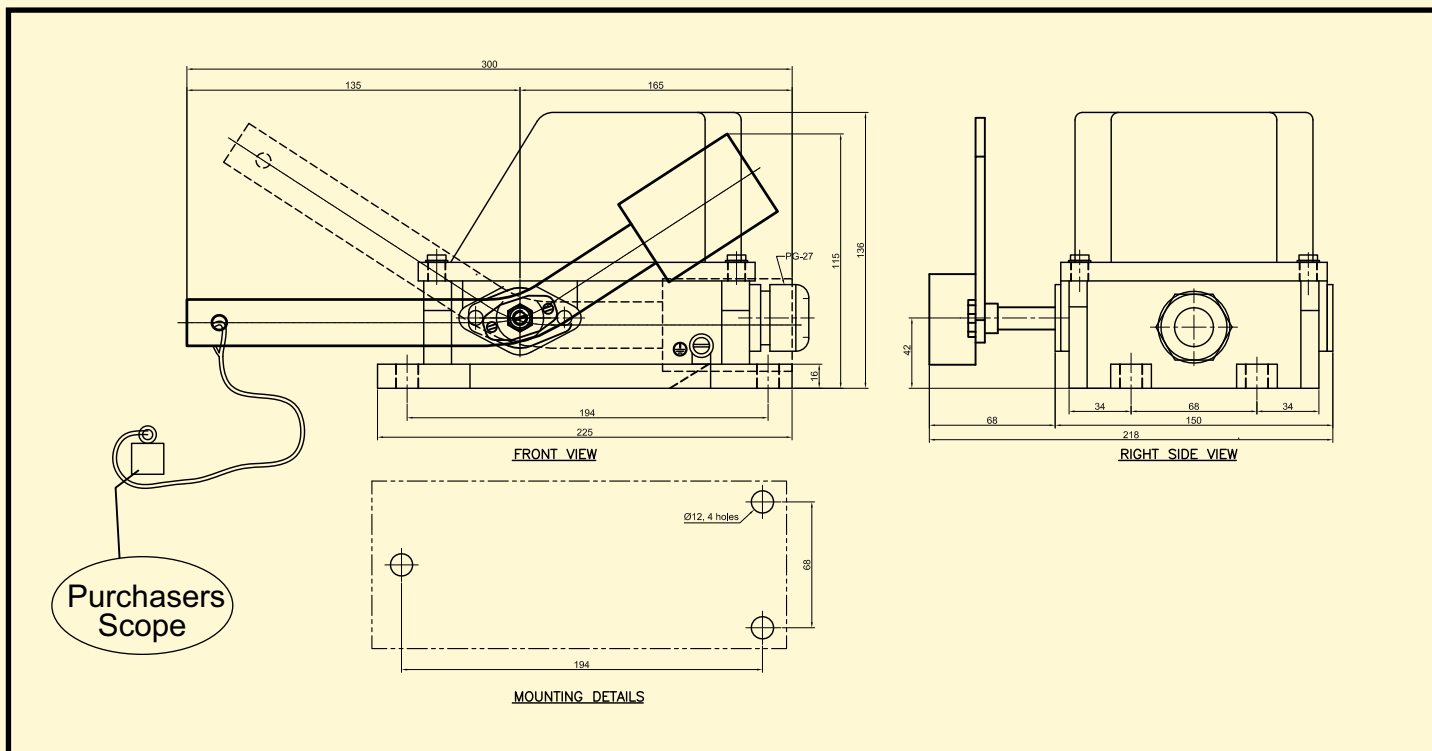
Switching Diagram

HCWLS/2SH/4(2NO + 2NC)

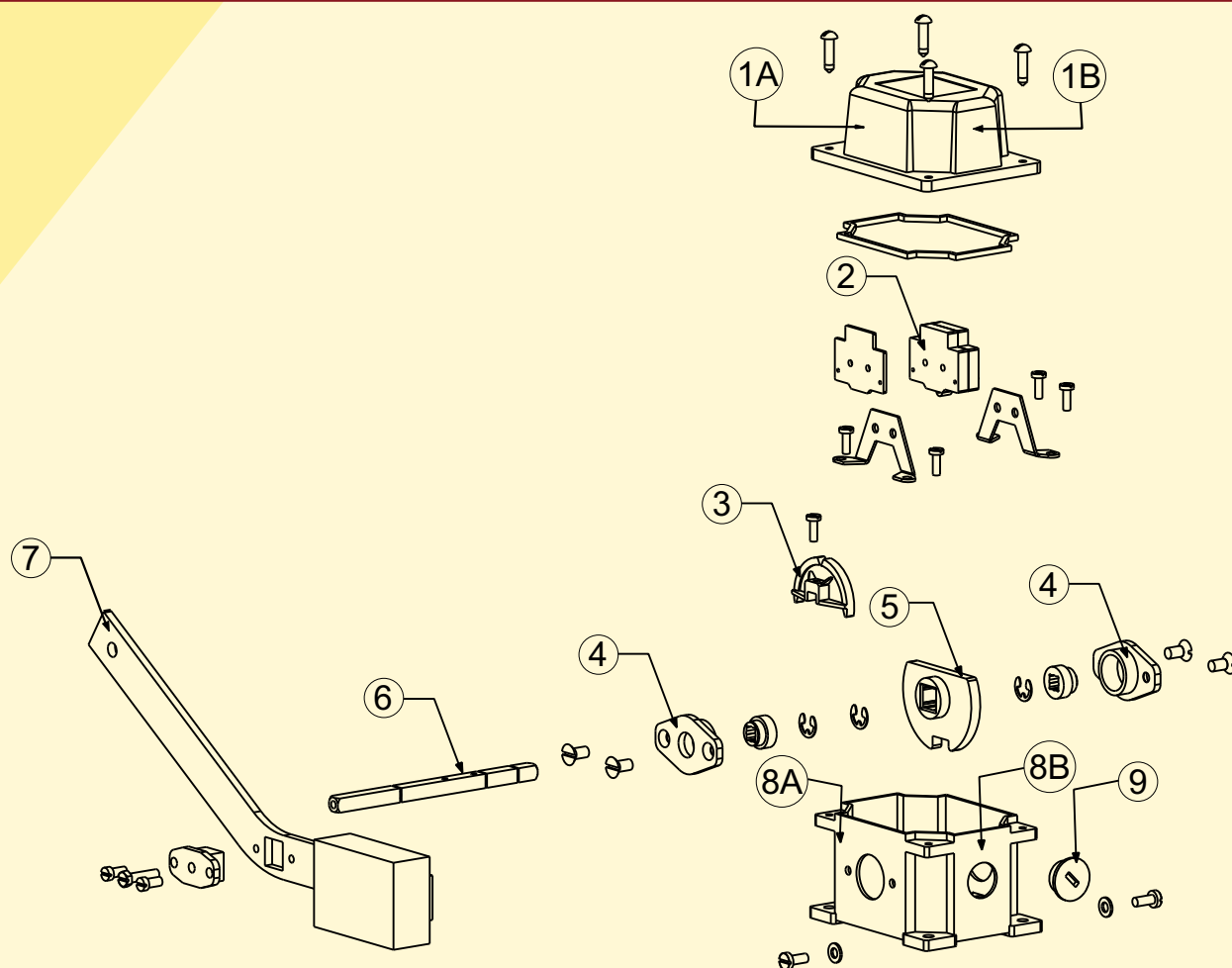
CONTACT NO	1	0	1
1	X	X	
2	X	X	
3		X	X
4		X	X

HCWLS/1SH/4(4NC)

CONTACT NO	1	0	1
1		X	
2		X	
3		X	
4		X	



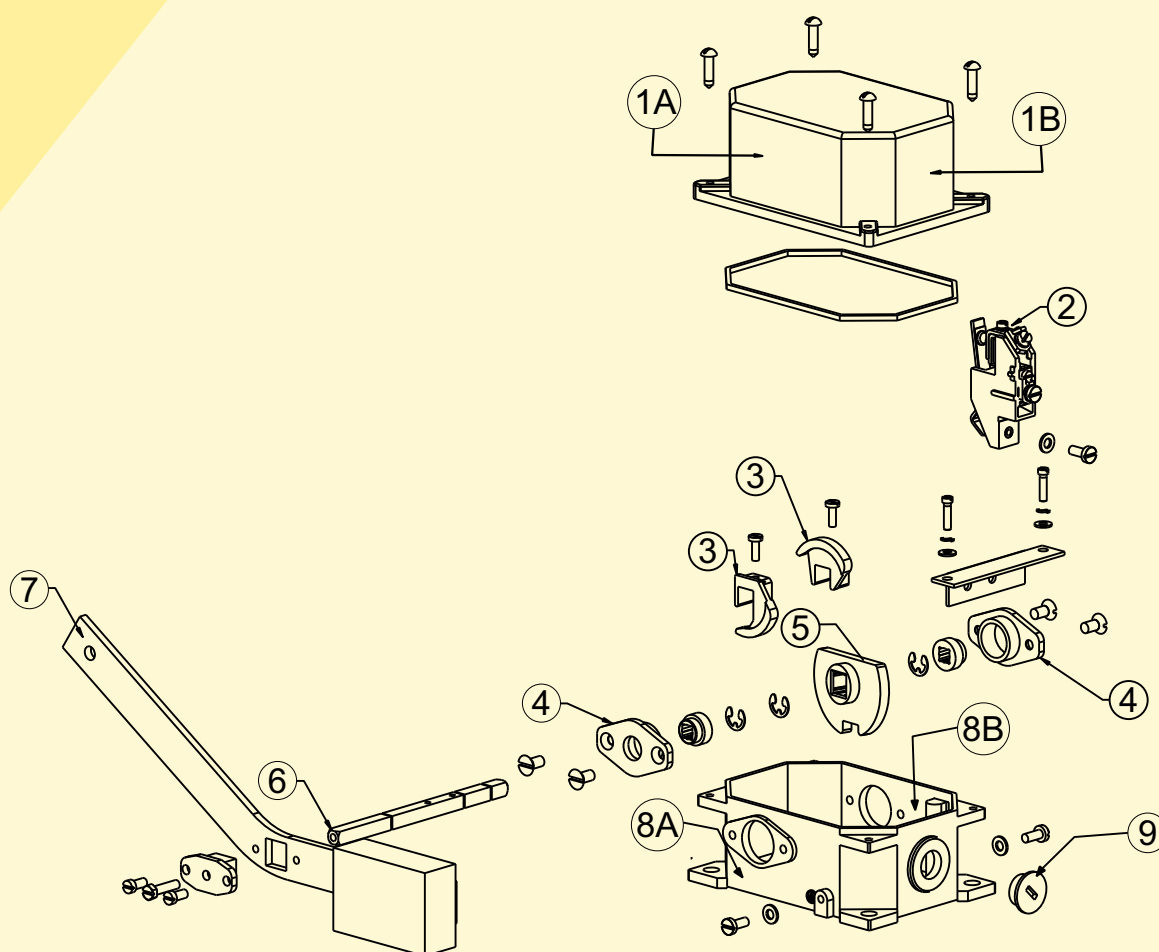
BLOW UP FOR COUNTER WEIGHT LIMIT SWITCHES(10AMPS)



SPARES FOR COUNTER WEIGHT LIMIT SWITCHES(10AMPS)

1A TOP COVER AL (10CWTAL)	1B TOP COVER TP (10CWTCTP)	2 CONTACT ELEMENT ASSEMBLY (10CWCA)	3 CAMS (10CWCN)	4 START/END BUSH (10CWSB/10CWEB)	
5 STOPPER (10CWST)	6 CAM SHAFT (10CWCS)	7 COUNTER WEIGHT WITH WIRE ROPE (10CWCWR)	8A BOTTOM COVER AL (10CWBAL)	8B BOTTOM COVER TP (10CWBCTP)	9 CABLE GLAND BUTTON (10CWCGB)

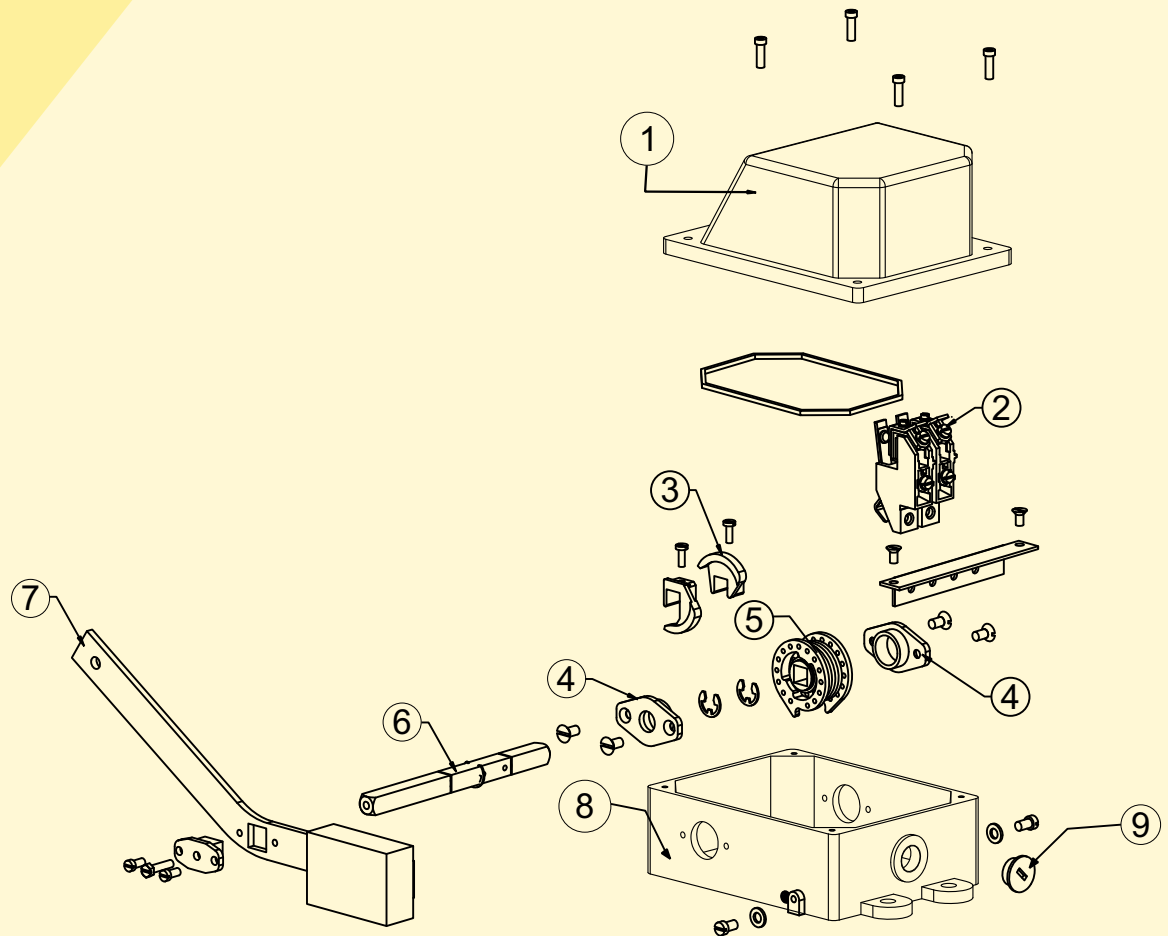
BLOW UP FOR COUNTER WEIGHT LIMIT SWITCHES(40AMPS)



SPARES FOR COUNTER WEIGHT LIMIT SWITCHES(40AMPS)

1A  TOP COVER AL (40CWTCAL)	1B  TOP COVER TP (40CWCTP)	2  CONTACT ELEMENT ASSEMBLY (40CWCA)	3  CAMS (40CWCM)	4  START/END BUSH (40CWSB/40CWEB)	
5  STOPPER (40CWST)	6  CAM SHAFT (40CWCS)	7  COUNTER WEIGHT WITH WIRE ROPE (40CWCWR)	8A  BOTTOM COVER AL (40CWBCAL)	8B  BOTTOM COVER TP (40CWBCTP)	9  CABLE GLAND BUTTON (40CWCGB)

BLOW UP FOR HEAVY DUTY COUNTER WEIGHT LIMIT SWITCHES(40AMPS)



SPARES FOR HEAVY DUTY COUNTER WEIGHT LIMIT SWITCHES(40AMPS)

1



**TOP COVER
(40HCWTCAL)**

2



**CONTACT ELEMENT
ASSEMBLY
(40HCWCA)**

3



**CAMS
(40HCWCM)**

4



**START/END BUSH
(40HCWSB/40HCWEB)**

5



**SPRING ASSEMBLY
(40HCWSRA)**

6



**CAM SHAFT
(40HCWCS)**

7



**COUNTER WEIGHT
WITH WIRE ROPE
(40HCWCWR)**

8



**BOTTOM COVER
(40HCWBCAL)**

9



**CABLE GLAND
BUTTON
(40HCWCGB)**

SPEED-O-CONTROLS PVT. LTD.

CRANE CONTROL SOLUTIONS

CRANE CONTROL GEAR



POWER DISTRIBUTION



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