



COUNTERS



Product Description	Model No.	Function	Sensing	Output (Relay)	Display	Input Supply	Size (in mm)
Digital Counter	PCC-07	Event Up Counting	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	On Display	6 Digit 7 Segment	85-260V AC 50Hz	72X72
	PCC-49						48X96
Programable Counter	PDC-04	4Digit Counter+Batch or 2 set points with Scale Factor	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	1 C/O	4x2 Digits 7 Segments	85-260V AC 50Hz	48X48
	PDC-07			1 C/O+1 N/O			72X72
	PDC-09			1 C/O+1 C/O			96X96
Programmable Batch Counter	PBC-04	4 digit Count + 4 digit Batch	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	1 C/O	4+4 Digit 7 Segment	85-260V AC 50Hz	48X48
	PBC-07	6 digit Count + 6 digit Totalizer		1 C/O+1 N/O	6+4 Digit 7 Segment		72X72
	PBC-09	4 digit Counter with 2 set points		1 C/O+1 C/O			96X96
	PBC-49	4/6 digit Counter + 4 digit Batch		1 C/O+1 C/O	6 Digit 7 Segment		48X96
Programmable Length Counter	PLC-07	6 digit Count + 6 digit Totalizer	Input – PNP (Quadrature) Proximity, /Encoder, Potential free contact etc.	1 C/O+1 N/O	6+4 Digit 7 Segment	85-260V AC 50Hz	72X72
	PLC-09	4 digit Counter with 2 set points		1 C/O+1 C/O			96X96
	PLC-49	4/6 digit Counter + 4 digit Batch		1 C/O+1 C/O			6 Digit 7 Segment
FAN WINDING MACHINE CONTROLLER	FWC-01	Fan Winding Machine Controller	Input – PNP, Wire Sens - Potential Free	Motor O/P 230V AC, 4,3 Wire, Brk O/P-110VDC	3X2 Digit 7 Segment	180-250V AC 50Hz	97X190
RPM Indicator With Auto Range	RPM-04	RPM Indication with Auto Ranging	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	On Display	4 Digit 7 Segment	85-260V AC 50Hz	48X48
	RPM -07						72X72
	RPM-49						48X96
Programmable RPM Indicator with Auto Range	PRI-04	RPM Indicator with Scale Factor	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	On Display	4 Digit 7 Segment	85-260V AC 50Hz	48X48
	PRI-07						72X72
Programmable RPM Indicator With Counter	PRC-07	RPM Indicator + Counter with Scale Factor	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	On Display	6+4 Digit 7 Segment	85-260V AC 50Hz	72X72
	PRC-09						6 Digit 7 Segment
	PRC-49				48X96		
Programmable RPM Indicator with Low & High Alarm	PRL-07	RPM Indicator + Low & High Alarm with Scale Factor	Input – PNP & NPN, Proximity /Encoder, Potential free cont. etc.	Dual Relay / Display	4 Digit 7 Segment	85-260V AC 50Hz	72X72



TIMERS



Product Description	Model No.	Function	Sensing	Output Relay	Display	Input Supply	Dimensions (in mm)
Analog Timer	48U	ON Delay / OFF Delay	----	1 C/O+1 N/O	LED Indicator	85-260V AC 50Hz	48X48
Digital Timer	MRT-037T	ON/OFF Delay, External Start, Power ON Start	Input – PNP	1 C/O+1 N/O	3 Digit, 7 Segment	85-260V AC 50Hz	72X72
	MRT-039T			1 C/O+1 C/O			96X96
Din Rail Timer	100C	Cyclic	----	1 C/O+1 C/O	LED Indicator	85-260V AC 50Hz	22.5 Din Rail
	100MR	Forward-pause-reverse		1 C/O+1 C/O	LED Indicator		22.5 Din Rail
	100U	ON or OFF Delay		1 C/O+1 C/O	LED Indicator		22.5 Din Rail
	100U-1C/O			1 C/O	LED Indicator		22.5 Din Rail
	100SD	2 Time Ranges		1 C/O+1 C/O	LED Indicator		22.5 Din Rail
Programmable Timer	PTR-04, O4A, O4B	Programable Timer	Input – PNP & NPN, Proximity, /Encoder, Potential free cont.	1 C/O+1 N/O	4X2 Digit 7 Segment	85-260V AC 50Hz	48X48
	PTR-07			1 C/O+1 N/O			72X72
	PTR-09			1 C/O+1 C/O			96X96
Time Totalizer	PTT-49	Multi Range Time Totalizer	Input PNP- Start/Reset, NPN-Stop	1 C/O+1 C/O	6 Digit 7 Segment	85-260V AC 50Hz	48X96
Real Time (Clock) Timer	RTC-07	RELAY ON/OFF Via Clock Timer		1 C/O 10Amp.	6X2 Digit 7 Segment	85-260V AC 50Hz	72X72

TEMPERATURE CONTROLLERS



Product Description	Model No.	Function	Sensing	Output (Relay)	Display	Input Supply	Size (in mm)
Analog Temperature Controllers	BTC-04	ON/OFF Temperature	J, K Type, (Factory Setting)	1 C/O	LED Indicator	85-260V AC 50Hz	48X48
	BTC-07					180-250V AC 50Hz	72X72
Digital Temp. Controller	DTC-07	ON/OFF Temperature	J, K Type, PT-100 Type (Factory Setting)	1 C/O	4 Digit 7 Segment	180-250V AC 50Hz	72X72
	DTC-09						96X96
Programmable Temp. Controller	PTC-04	ON/OFF Temperature	J, K Type, PT-100 Type	1C/O+1 N/O	4 Digit 7 Segment	180-250V AC 50Hz	48X48
	PTC-07			1C/O+1 C/O		180-250V AC 50Hz	72X72
	PTC-09	PID	1C/O+1 C/O	180-250V AC 50Hz		96X96	
	PTC-49		1C/O+1 C/O	180-250V AC 50Hz		48X96	

DIGITAL PANEL METER & PROCESS INDICATORS



Product Description	Model No.	Function	Measuring Range	Sensing	Display	Input Supply	Size (in mm)	
Digital AC Ampere & Volt Meter	DAA-07	AC Current Measurement	0-20Amp.	AC Current	4 Digits, 7 Segments	220V AC \pm 20% 50Hz	72x72	
	DAA-09		0-50A (with small CT)				96x96	
	DAA-49		0-5A (CT Prog.)				48x96	
	DAV-36	AC Voltage Measurement	0-500V AC	AC Voltage	3 Digits, 7 Segments	8-15V AC/DC	36x62	
	DAV-07						72x72	
	DAV-09						220V AC \pm 20% 50Hz	96x96
	DAV-49						48x96	
	DAU-07	AC Current & Voltage Measurement	0-5Amp. C. T. (Prog.) 0-50Amp. AC (Small C.T.) 0-500V AC SENS	AC Curr. & Vol.	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
	DAV-7M	AC Voltage Measurement	0-5.000V AC	Analog Signal	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
	DAV-4M	0-50.00V AC	48x96					
	DAV-9M	(Multi Range) 0-1000V AC	96x96					
DAV3-07	3 \emptyset AC Voltage Measurement			AC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
DAV3-09							96x96	
DAV3-49							48x96	
Digital Frequency & Volt Meter	DFM-07	Frequency Measurement	30-600V AC	AC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
	DFV-07	Frequency & Volt Measurement	30-500V AC	AC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
Digital Power Factor Meter	DPF-07	Definition and calculation of Power	30-500V AC	AC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
Digital Watt Meter	DAW-07	Watt Measurement	30-500V AC	AC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
Digital DC AMPERE Meter	DDA-07	Current Measurement	0-20Amp. DC	DC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
	DDA-49		0-75mV DC (Shunt) 0-5Amp. DC				48x96	
Digital DC VOLT Meter	DDV-36	Voltage Measurement	0-99.9V DC	DC Voltage	3 Digits, 7Seg.	8-15V AC/DC	36x62	
	DDV-07		0-5, 0-50 & 0-1000V DC	DC Voltage	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
	DDV-49						48x96	
PROCESS INDICATOR	PTI-49	Temperature Indicator			4 Digits, 7Seg.	220V AC \pm 20% 50Hz	48x96	
	PIU-07	Pressure, Level, Flow, Frequency, Humidity, Position, DC Voltage or Current & RPM	4-20mA	Analogue Signal	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72	
	PIU-49		0-10V DC 0-100V DC				4 Digits, 7Seg.	48x96
	PIL-07	4-20mA 0-100V DC	Analogue Signal	4 Digits, 7Seg.	220V AC \pm 20% 50Hz	72x72		



PLASTIC & PACKAGING MACHINE CONTROLLERS

GSCT-220

- Input Supply : 24 Volt AC/DC
- Input Control : Start, Color Sensors, Forward Inching, •Revers Inching
- Output : RS485 to Stepper Drive
General Purpose 3 Relay output



GSCT-222

- Input Supply : 24 Volt AC/DC Input Control:Start, Color Sensors, Forward Inching,
- Revers Inching
- Output : Clock, Direction, Run for Servo/Stepper Motor Drive
General Purpose 3 Relay output



GSCT-224

- Input Supply : 175 - 275 Volt AC
- Input Control : 16 Digit Programable Input
Configure as: Start, Stop, Home Sensor, Forward, Reverse, End Sensor,
Max, Limit, Reset Key & General Purpose Input
- Output : Stepper / Servo Drive: CLK, DIR, Enable, Run 10mA
General Purpose Output: 8 1C/O Realy 10 Amp
8 Open Collector 500mA.



GPPC-04

- Input Supply : 230 Volt AC
- Input Control : Start, Color Sensors, Fork Sensor
- Output : Clutch Output 24 Volt DC, Break Output 24 Volt DC



GPDC-04

- Input Supply : 230 Volt AC
- Input Control : Start, Fork Sensor
- Output : Clutch Output 24 Volt DC, Break Output 24 Volt DC
1 C/O Relay Output



GPRC-06

- Input Supply : 230 Volt AC
- Input Control : Start, Fork Sensor
- Output : Stepper Motor Output 2Amp.



DIGITAL CLOCKS

Digital clock provides a complete clock synchronization solution for the industries. Each feature of the clocks has been carefully designed to ensure the highest quality, stability and simplicity when synchronizing clocks and displaying time.



Feature Details:

Sl.	Product Description	SGCLK-01	SGCLK-044	SGCLK-046	SGCLK-048
1.	Clock Size (w*h*d) inch.	160X160X80mm	17.5x6.6x2.8"	25x7.9x3.2"	33.8x10.3x3.3"
2.	Display Digits	4 Digits 7 Segment	4 Digits LED Bar	4 Digits LED Matrix	4 Digits LED Matrix
3.	Digit dimensions (h*w) inch.	1X0.59"	4x2.3"	6x3.3"	8x4.4"
4.	Number of Alarms	24	16	16	16
5.	Time Format	12 hrs. and 24 hrs.	12 hrs. and 24 hrs.	12 hrs. and 24 hrs.	12 hrs. and 24 hrs.
6.	Power Requirement	220V, 50 Hz AC	220V, 50 Hz AC	220V, 50 Hz AC	220V, 50 Hz AC
7.	Calibration:				
	(a): Through key panel	Inbuilt	Inbuilt	Inbuilt	Inbuilt
	(b): RS232 interface with computer	No	Inbuilt	Inbuilt	Inbuilt
	(c): G.P.S. Synchronization	No	Optional	Optional	Optional
8.	Synchronization between clocks:				
	(a): Through wired link (interface only)		Inbuilt	Inbuilt	Inbuilt
	(b): Through wireless link		Optional	Optional	Optional
9.	Alarm output	220V AC, 50 Hz	220V AC, 50 Hz	220V AC, 50 Hz	220V AC, 50 Hz

PRODUCTION DISPLAY BOARD

We manufacture customized production display board of various dimensions as per customer requirements.

Feature Details:

- RS-232 connectivity with computer.
- Production data entry logging into excel sheet.
- Moving message display for some greetings.
- All data settings can be configured using keypad or computer software.
- Real time control based.



SOLID STATE RELAY (SSR)

A solid-state relay (SSR) is an electronic switching device in which a small control signal controls a larger load current or voltage.

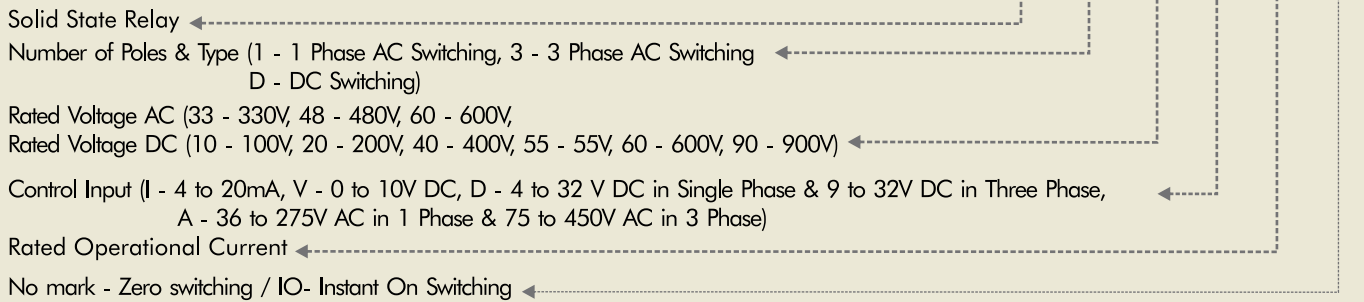
Applications:

- Heater ON/OFF/heat regulation
- Motor switching
- AC switching (Mains & Generator Change Over)
- Solenoid valve ON/OFF
- Fan ON/OFF/regulate
- Industrial use (Rubber, Packaging, Plastic Industries etc.)



Model Naming Convention

SR 1 48 A 90 X



SSR	Control Input	Model No.								
		09 Amp.	16 Amp.	25 Amp.	40 Amp.	50 Amp.	90 Amp.	100 Amp.	150 Amp.	200 Amp.
Single Phase (Zero / Instant-ON Switching)	4-32V DC		SR133D16	SR148D25	SR133D40	SR148D50	SR148D90	SR148D100	SR148D150	SR148D200
	36-275V AC		SR133A16	SR148A25	SR133A40	SR148A50	SR148A90	SR148A100	SR148A150	SR148A200
Three Phase (Zero Switching)	9-32V DC			SR348D25	SR333D40	SR348D50	SR348D90			
	75-275V AC			SR348A25	SR333A40	SR348A50	SR348A90			
Phase Control	4-20mA.			SR148I25	SR133I40	SR148I50	SR148I90	SR148I100	SR148I150	SR148I200
	100K POT		SR133R16		SR133R40					
DC Switching	4-32V DC	SRD90D09	SRD40D16	SRD20D25		SRD05D50				
						SRD10D50				

HEATSINK & APPLICATION

Model No.	Specification / Dimension (mm)	Application
HSKA	28 x 77 x 50	16 Amp. SSR
HSK1B	72.5 x 80 x 45	Application dependent.
HSK2B	72.5 x 80 x 95	Application dependent.
HSK3B	72.5 x 80 x 145	Application dependent.
HSK4BF	72.5 x 80 x 195 & Cooling fan	Application dependent.
HSK6BF	72.5 x 80 x 295 & Cooling fan	Application dependent.
HSK1BF	72.5 x 80 x 95 & Cooling fan	90 Amp. SSR
HSK1CF	72.5 x 80 x 110, & Cooling fan	Application dependent.



SOLID STATE BRAKE RECTIFIER

Model	BR230N90A	BR230N190A	BR415N190A	BR230N90B	BR230N190B	BR415N190B	BR230F90C	BR415F190C
Dimensions	53X38	53X38	53X38	48X30	48X30	48X30	41X33	41X33
Ampere	2Amp.	2Amp.	2Amp.	2Amp.	2Amp.	2Amp.	1.5Amp.	1.5Amp.
Voltage	90V DC	190V DC	190V DC	90V DC	190V DC	190V DC	90V DC	190V DC



DC MOTOR DRIVES

DC Motor Drive is used to control the speed of DC Motors with field fail protection. This can be activated or deactivated by the jumper position. In case of field fail, DC Drive stops the motor & Field Fail LED illuminates. DC Drive provides the user a separate PNP input through which user can start or stop the motor.

Features:

1. Field Fail Protection
2. Overload Protection
3. Field Overload Protection by Fuse
4. Output Control by Potentiometer



Model No.	Range	Operating Supply	Output		Control	Size
			Armature	Field		
TD - II	1HP, 2HP, 3HP	230 Volt AC	0-180 Volt DC	180 Volt DC	Pot on Top	245 x 150 x 105
TD - IIT	1HP, 2HP, 3HP	230 Volt AC	0-180 Volt DC	180 Volt DC	Pot on Terminal	245 x 150 x 105
TD - IIS	1HP, 2HP, 3HP	230 Volt AC	0-180 Volt DC	180 Volt DC	Pot on Terminal	167 x 125 x 52
TD - I	3HP, 5HP, 7.5HP	230 Volt AC	0-180 Volt DC	180 Volt DC	Pot on Top	310 x 210 x 130
TD - I4	3HP, 5HP, 7.5HP	440 Volt AC	0-360 Volt DCC	180 Volt DC	Pot on Top	310 x 210 x 130

VIBRATOR CONTROLLERS

Vibrator controller controls the electromagnetic vibrator & produced a control vibration for many use like automatic feeder, packaging machinery etc.

Vibrator controller trip & protects the coil of electromagnetic vibrator from overload current.

Specifications:

Input Supply	: 220 Volt AC, 50Hz
Output	: 0 - 220 Volt AC, 50Hz 10 Amp Max (Trip)
Timer	: ON delay (on start up) 0 - 10 Sec. OFF delay (before shutdown) 0 - 10 Sec.
Indicator	: 1. Output 2. Input Control Signal 3. Overload Trip 4. Power (Mains)
Input Control Signal	: NPN - NO
Control Switch	: 1. Power ON/OFF (Mains) 2. Reset (Overload Trip) 3. Output Control by Potentiometer
Size	: 75(L) x 155(W) X 140(D)

GVC12



GVC12T



GVC-22



PROXIMITY SENSORS

INDUCTIVE SENSOR DC

- supply voltage: 5-32V DC
- Repeat accuracy: 0.02mm
- Hysteresis: 3 - 9%
- Enclosure: Nickle - Chrome Plated Brass
- Maximum Load Current: 300mA
- Protection: Reverse Polarity - Short Circuit - IP67

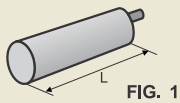


FIG. 1

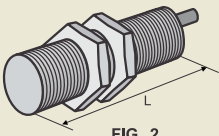


FIG. 2

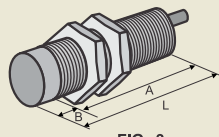
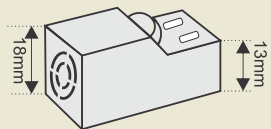


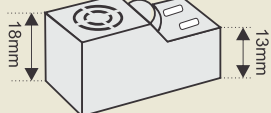
FIG. 3



R1 Front Sens



R2 Top Sens



SIZE	SENSING RANGE (mm)	OUTPUT TYPE for LOGIC		MOUNTING	DIMENSIONS			MODEL No.		
					A	B	L			
M6 FLAIN	1	PNP	NO	FLUSH	-	-	40	PR D 6 P O F		
		PNP	NC	FLUSH	-	-	40	PR D 6 P C F		
		NPN	NO	FLUSH	-	-	40	PR D 6 N O F		
		NPN	NC	FLUSH	-	-	40	PR D 6 N C F		
M8	1.5	PNP	NO	FLUSH	-	-	45	PR D 8 P O F		
		PNP	NC	FLUSH	-	-	45	PR D 8 P C F		
		NPN	NO	FLUSH	-	-	45	PR D 8 N O F		
		NPN	NC	FLUSH	-	-	45	PR D 8 N C F		
M12	2	PNP	NO	FLUSH	-	-	51	PR D 12 P O F		
		PNP	NC	FLUSH	-	-	51	PR D 12 P C F		
		NPN	NO	FLUSH	-	-	51	PR D 12 N O F		
		NPN	NC	FLUSH	-	-	51	PR D 12 N C F		
	4	PNP	NO	NON FLUSH	51	6	57	PR D 12 P O		
		PNP	NC	NON FLUSH	51	6	57	PR D 12 P C		
		NPN	NO	NON FLUSH	51	6	57	PR D 12 N O		
		NPN	NC	NON FLUSH	51	6	57	PR D 12 N C		
	2	PNP	NO+NC	NON FLUSH	51	6	57	PR D 12 P U		
		PNP	NO+NC	FLUSH	-	-	51	PR D 12 P U F		
		NPN	NO+NC	NON FLUSH	51	6	57	PR D 12 N U		
		NPN	NO+NC	FLUSH	-	-	51	PR D 12 N U F		
M18	5	PNP	NO	FLUSH	-	-	51	PR D 18 P O F		
		PNP	NC	FLUSH	-	-	51	PR D 18 P C F		
		NPN	NO	FLUSH	-	-	51	PR D 18 N O F		
	5	NPN	NC	FLUSH	-	-	51	PR D 18 N C F		
		8	PNP	NO	NON FLUSH	51	8	59	PR D 18 P O	
		8	PNP	NC	NON FLUSH	51	8	59	PR D 18 P C	
	8	NPN	NO	NON FLUSH	51	8	59	PR D 18 N O		
		NPN	NC	NON FLUSH	51	8	59	PR D 18 N C		
PNP		NO+NC	NON FLUSH	51	8	59	PR D 18 P U			
5		PNP	NO+NC	FLUSH	-	-	51	PR D 18 P U F		
8		PNP	NO+NC	NON FLUSH	51	8	59	PR D 18 N U		
5		PNP	NO+NC	FLUSH	-	-	51	PR D 18 N U F		
M30		10	PNP	NO	FLUSH	-	-	65	PR D 30 P O F	
			PNP	NC	FLUSH	-	-	65	PR D 30 P C F	
	NPN		NO	FLUSH	-	-	65	PR D 30 N O F		
	NPN		NC	FLUSH	-	-	65	PR D 30 N C F		
	15	PNP	NO	NON FLUSH	65	10	75	PR D 30 P O		
		PNP	NC	NON FLUSH	65	10	75	PR D 30 P C		
		NPN	NO	NON FLUSH	65	10	75	PR D 30 N O		
		NPN	NC	NON FLUSH	65	10	75	PR D 30 N C		
	15	PNP	NO+NC	NON FLUSH	65	10	75	PR D 30 P U		
		PNP	NO+NC	FLUSH	-	-	65	PR D 30 P U F		
		NPN	NO+NC	NON FLUSH	65	10	75	PR D 30 N U		
		NPN	NO+NC	FLUSH	-	-	65	PR D 30 N U F		
R1	6	NPN	NC	NON FLUSH	18	7	35	PR D R 1 N C		
		NPN	NO	NON FLUSH	18	7	35	PR D R 1 N O		
		NPN	NO+NC	NON FLUSH	18	7	35	PR D R 1 N U		
		PNP	NC	NON FLUSH	18	7	35	PR D R 1 P C		
	6	PNP	NO	NON FLUSH	18	7	35	PR D R 1 P O		
		PNP	NO+NC	NON FLUSH	18	7	35	PR D R 1 P U		
		R2	6	NPN	NC	NON FLUSH	18	7	35	PR D R 2 N C
				NPN	NO	NON FLUSH	18	7	35	PR D R 2 N O
NPN	NO+NC			NON FLUSH	18	7	35	PR D R 2 N U		
PNP	NC			NON FLUSH	18	7	35	PR D R 2 P C		
6	PNP	NO	NON FLUSH	18	7	35	PR D R 2 P O			
		NO+NC	NON FLUSH	18	7	35	PR D R 2 P U			

PROXIMITY SENSORS

INDUCTIVE SENSOR AC

- SUPPLY VOLTAGE : 90-250V AC.
- VOLTAGE DROP : Less than 0.5V
- MAX. LOAD CURRENT : 300mA
- LEAKAGE CURRENT : Less than 1mA.
- ENCLOSURE : Hosing & Nut Material Brass
- Ambient Temp. : 0°C to 70°C
- HYSTERESIS : 3 to 20% of sensing distance
- CABLE LENGTH : 2 Mtrs, 2 Core, PVC cable.



SIZE	SENSING RANGE (mm)	OUTPUT TYPE for LOGIC		MOUNTING	DIMENSIONS			MODEL No.
					A	B	L	
M12	4	NO	NC	NON FLUSH	71	6	77	PR A 12 O
	4	NC	NO	NON FLUSH	71	6	77	PR A 12 C
	2	NO	NC	FLUSH	-	-	71	PR A 12 O F
	2	NC	NO	FLUSH	-	-	71	PR A 12 C F
M18	8	NO	NC	NON FLUSH	51	8	59	PR A 18 O
	8	NC	NO	NON FLUSH	51	8	59	PR A 18 C
	5	NO	NC	FLUSH	-	-	51	PR A 18 O F
	5	NC	NO	FLUSH	-	-	51	PR A 18 C F
M30	15	NO	NC	NON FLUSH	65	10	75	PR A 30 O
	15	NC	NO	NON FLUSH	65	10	75	PR A 30 C
	10	NO	NC	FLUSH	-	-	65	PR A 30 O F
	10	NC	NO	FLUSH	-	-	65	PR A 30 C F

CAPACITIVE SENSOR

- Supply Voltage : 10-32 V DC.
- Voltage Drop: Less Than 0.5 V.
- Max. Load Current : 300mA.
- Leakage Current : Less Than 5mA.
- Protections: Short Circuit - IP67
- Cable Length : 2 Mtrs, 3 Core, PVC Cable.
- Enclosure : M18, 30 (hosing & Nut Material Brass)
Rectangular R1 & R2 (Material ABS Plastic).

SIZE	SENSING RANGE (mm)	OUTPUT TYPE for LOGIC		MOUNTING	DIMENSIONS			MODEL No.
					A	B	L	
M18	8	NPN	NO+NC	NON FLUSH	51	8	59	PR C 18 N U
	8	PNP	NO+NC	NON FLUSH	51	8	59	PR C 18 P U
M30	15	NPN	NO+NC	NON FLUSH	65	10	75	PR C 30 N U
	15	PNP	NO+NC	NON FLUSH	65	10	75	PR C 30 P U
R1	8	NPN	NO+NC	NON FLUSH	18	7	35	PR C R1 N U
	8	PNP	NO+NC	NON FLUSH	18	7	35	PR C R1 P U
R2	8	NPN	NO+NC	NON FLUSH	18	7	35	PR C R2 N U
	8	PNP	NO+NC	NON FLUSH	18	7	35	PR C R2 P U

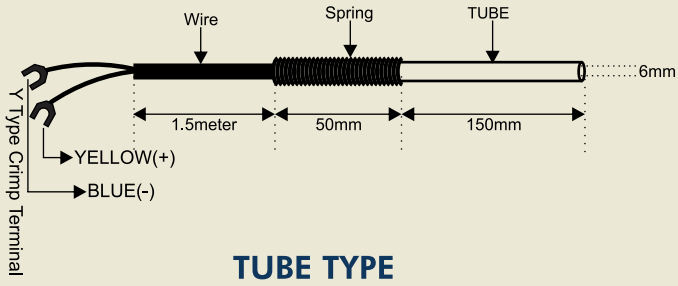
INFRARED SENSOR

- Supply Voltage : 10-30 V DC.
- Voltage Drop : Less Than 0.5 V
- Max. Load Current : 200 mA.
- Leakage Current : Less Than 5 mA.
- Ambient Temp : -25 Degree Cent To 70°C
- Hysteresis : 2 To 10% Of Sensing Distance
- Cable Length : 2 Mtrs, 3 Core, PVC Cable.

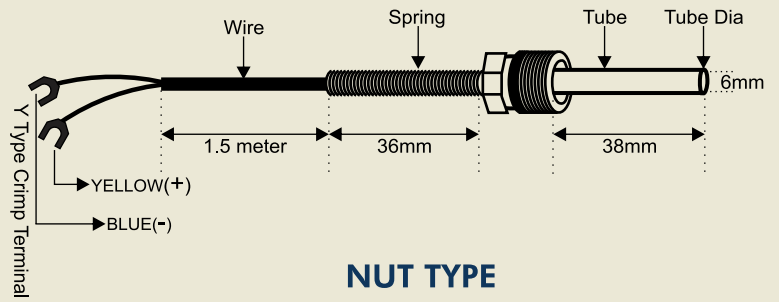
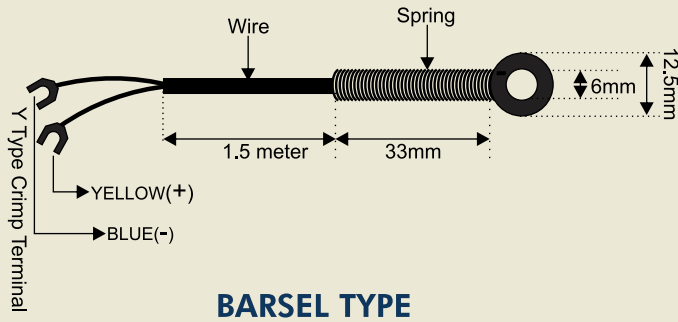
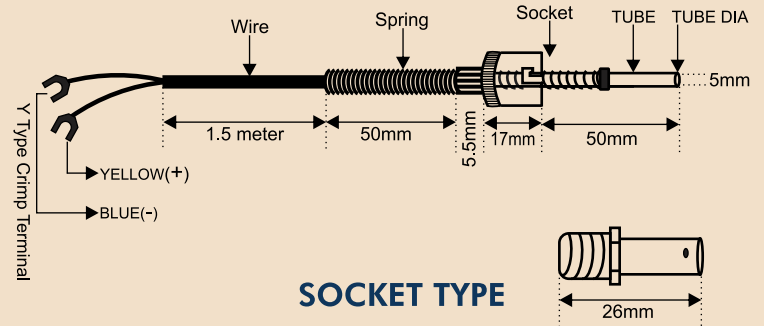
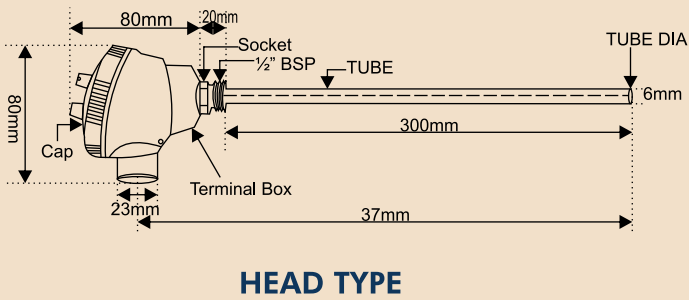


SIZE	SENSING RANGE (mm)	OUTPUT TYPE for LOGIC		MOUNTING	DIMENSIONS			MODEL No.
					A	B	L	
M18	10-300	NPN	NO+NC	NON FLUSH	-	-	51	PR I18 N U
	10-300	PNP	NO+NC	NON FLUSH	-	-	51	PR I18 P U
R1	10-300	NPN	NO+NC	NON FLUSH	18	7	35	PR I R1 N U
	10-300	PNP	NO+NC	NON FLUSH	18	7	35	PR I R1 P U
R2	10-300	NPN	NO+NC	NON FLUSH	18	7	35	PR I R1 N U
	10-300	PNP	NO+NC	NON FLUSH	18	7	35	PR I R1 P U

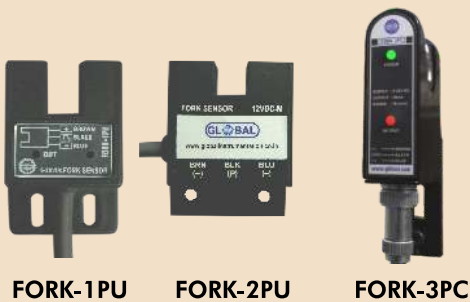
TEMPERATURE SENSORS



TYPE	TEMPERATURE RANGE
J TYPE	-50 - 600°C
K TYPE	-50 - 1200°C
PTPTRH TYPE	-50 - 1600°C
RTD / PT-100TYPE	-50 - 700°C



FORK SENSORS



Model	Supply Voltage	Voltage Drop	Max. Load Current	Leakage Current	Hysteresis	Cable Length
FORK-1PU	6-30V DC	Less than 0.5V	50 mA.	Less than 50µA	2 TO 10 % Of Sensing distance	2 Mtrs, 3 Core, PVC cable.
FORK-2PU	12V DC.	Less than 0.5V	50 mA.	Less than 50µA	2 TO 10 % Of Sensing distance	2 Mtrs, 3 Core, PVC cable.
FORK-3PC	5-32V DC	Less than 0.5V	50 mA.	Less than 50µA	2 TO 10 % Of Sensing distance	2 Mtrs, 3 Core, PVC cable.



- Senses objects as small as 0.30 mm that passes through the slot.
- Supply voltage +12V and +24V DC.
- Easy and economical to mount.
- Fast response time.

- Operating voltage: +12V DC
- Operating temperature: -25°C to 70°C.

STEPPER MOTOR DRIVES

General Characteristics

- Bi-polar, Optically isolated directions.
- Low power dissipation.
- High efficiency.
- Automatic current reduction.



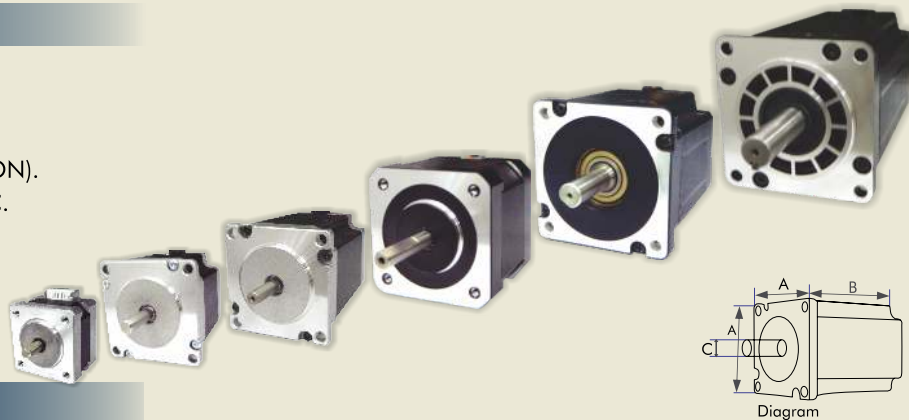
Specifications:

Features	STP-10A	STP-8A	STP-7A	STP-3A
Operating voltage	48V to 110V AC / DC	+36V to +80V DC	+24V to +80V DC	+12V to +32V DC
Peak current	1 to 10 Amp.	1 to 8 Amp.	1 to 7 Amp.	1 to 3 Amp.
Micro step	1, 2, 5 & 10 microstepping	1, 2, 5 & 10 microstepping	1, 2, 5 & 10 microstepping	2, 8, 10, 16, 20, 32, 40 & 64 microstepping
Direction setup	1 microsecond	1 microsecond	1 microsecond	1 microsecond
Dimensions (h*w*d)	88 x 170 x 138 mm.	50 x 126 x 100 mm.	50 x 126 x 100 mm.	28 x 80 x 80 mm.
Weight (gm.)	1.5 kg.	600 gm.	600 gm.	230 gm.
Ampere selection	Through resistance	Through resistance	Through resistance	Through DIP switch (SW4).
Power dissipations	1 to 24 watt.	1 to 14 watt.	1 to 12 watt.	1 to 2 watt.
Operating temperature	0 to 80°C	0 to 80°C	0 to 80°C	0 to 80°C
Step frequency	0 to 200Khz.	0 to 200Khz.	0 to 200Khz.	0 to 200Khz.

STEPPER MOTORS

General Characteristics:

- Step angle accuracy: $\pm 5\%$.
- Insulation class: B.
- Ambient temperature: -20°C to $+70^{\circ}\text{C}$.
- Temp. rise: 80°C max. (rated current, 2 Phase ON).
- Insulation resistance: 100M ohm min, 500V DC.
- Shaft radial play: 0.02 max. (450 G Load).
- Shaft axial play: 0.08 max. (450 G Load).



Electrical Specifications:

Model No.	Step Angle	Rated Voltage (V)	Current/Phase (Amp.)	Resistance/Phase (Ohm)	Inductance/Phase (mH)	Holding Torque (Kg-cm)	Rotor Inertia (g-cm ²)	Weight (Kg.)	Lead Wire (nos.)	Max. Axial Force (N)	Size (AxBxC)
35H26-SG0.5	1.8°	3.20	0.8	4.8	1.2	0.5	54	0.31	4	10	35x26x5
42H38-SG3.6	1.8°	2.80	1.68	1.65	3.20	3.60	54	0.28	4	10	42x38x5
57H51-SG7.2	1.8°	6.60	1.00	6.60	8.20	7.20	275	0.65	6	15	57x51x6.35
57H54-SG10	1.8°	2.30	2.80	0.83	2.20	10.0	290	0.70	4	15	57x54x6.35
57H76-SG18.9	1.8°	3.20	2.80	1.13	3.60	18.90	480	1.00	4	15	57x76x6.35
60H88-SG31	1.8°	4.20	2.80	1.50	6.80	31.00	840	1.40	4	30	60x88x8
86H80-SG46	1.8°	2.30	5.50	0.42	3.50	46.00	1400	2.30	4	60	86x80x12.7
86H118-SG85	1.8°	3.00	6.0	0.5	6.10	85.00	2700	3.80	4	60	86x118x12.7
86H156-SG120	1.8°	4.60	6.4	0.72	9.0	120.00	4000	5.30	4	60	86x156x15
110H150-SG220	1.8°	3.77	6.50	0.58	1.30	220.00	10900	8.40	4	100	110x160x19
110H201-SG280	1.8°	5.12	8.0	0.64	1.98	280.00	16200	11.7	4	100	110x201x19

MOTION CONTROLLER

SG-CNC-5AX



- 5 Axis (X, Y, Z, A, B) Step & Direction.
- 4 Relays 10Amp Rating with indicator LED's for Spindle Motor Coolant
- Flood Pump Vacuum, etc.
- Compatible - Mach2, Mach3, EMC2, Turbo CNC.
- Working Voltage (80 - 275V AC) No external DC power.
- All output fully buffered & up to isolated.
- All input up to isolated.
- All input & output with LED indicator for easy debugging.
- Charge pump safety select by DIP switch.
- UP to 200 kHz Step frequency.
- Fully isolated 0 - 10V DC for spindle speed.
- 12V DC 300mA output for external switch / limit switch / sensor (Proximity Input).

SG-1AXIS

- 32 Bit Micro-controller Based.
- 100% Noise Immunity.
- 4 Digit Programmable Input.

Configure As: Start, Stop, Home Sensor, Forward, Reverse, End Sensor, Max Limit & Reset Key

Set Parameter:

- Position: 000.00 to 999.99
- Speed: 000 to 999 RPM
- Delay for Output ON: 0.00 to 9.99 Sec.
- Output ON Time: 0.00 to 9.99 Sec.
- Function Start by: Auto/Next in.
- End Position by set Point or End Sensor
- No of Program: 000 to 999

- 1 Digit Input: Next in for Program Start.
- 1 Analog Input : For Run Speed Setting.
- 4 Digit Output: CLK 100 mA, DIR 100 mA, Next Out 100 mA & Relay C-No 10 Amp

- RS485 Port (Optional).
- Power Supply Output:
5 VDC 200mA (for Ext CLK & Dir)
12 VDC 200 mA (for Ext Input)
Input Power Supply (85-265 VAC) 50Hz



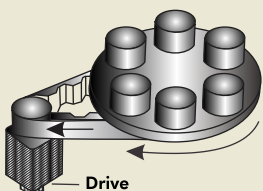
SG-1AXIS16



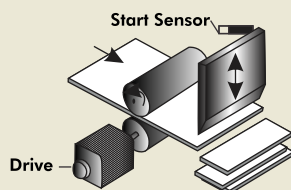
- 32 Bit Micro-controller Based.
- 100% Noise Immunity.
- 16 Digit Programmable Input.
Configure As: Start, Stop, Home Sensor, Forward, Reverse, End Sensor, Max Limit, Reset Key & General Purpose Input
- Digital Output:
Stepper / Servo Drive: CLK, DIR, Enable, Run 10mA
General Purpose Output: 8 1C/O Relay 10 Amp
8 Open Collector 500mA.

- Power Supply Output:
5 VDC 200mA (for Ext CLK & Dir)
12 VDC 200 mA (for Ext Input)
24 VDC 2Amp
- Input Power Supply (170-275V AC) 50Hz
- Set Parameter:
Position: 000.00 to 999.99
Speed: 0 to 3000 RPM
16 ON Delay Timer: 0.00 to 99.99 Sec. (Range)
16 OFF Delay Timer: 0.00 to 99.99 Sec. (Range)
No of Program: 000 to 999

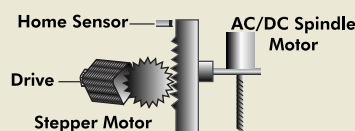
ROTARY TABLE



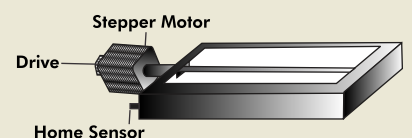
SHEET CUTTER



Z AXIS FOR TOOL POSITION



X,Y TABLE



CNC WINDING MACHINE CONTROLLERS

CNC Toroidal / CT Winding Machine Controller, Model: CNC-05SG
CNC Transformer Winding Machine Controller, Model: CNC-07SG

Specifications:

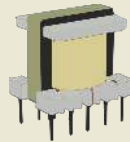
Micro controller based controls.

- Winding steps : 1000.
- Wire diameter : 0.1 to 9.999 mm.
- No. of turns in each step : 9999.9 or 99999.
- Winding motor : Internal DC Drive 180V DC, 1/2 HP.
External drive 0-10V DC for speed, forward & reverse control

- Signals.
 - Brake : 24V DC, 500 mA.
 - Traverse motor : Internal stepper motor drive up to 2Amp. phase current.
External drive clock & direction control signals.
 - Input supply : 220V, 50Hz AC.
 - Memory : Program & Data memory E²PROM.
 - Communication : RS485 interface for computer communications.
- Applicable on all Imported and Indian make machines.



Computer Software



POWER SUPPLY



Linear Power Supply

LPS-308

0-30V DC, 2Amp

TR486A

48V DC 6Amp, 24V DC 2Amp
5V DC 500mA, 12V DC 500mA

TR606A

60V DC 6Amp, 24V DC 2Amp
5V DC 500mA, 12V DC 500mA

TR806A

80V DC 6Amp, 24V DC 2Amp
5V DC 500mA, 12V DC 500mA



LENGTH CUTTING CONTROLLER & MACHINES

Specifications:

Input Supply	: 170- 245V AC, 50Hz
Output	: 1. Cutter Motor Drive Internal: 0-180V DC, 1/2 HP External: 0-10V DC, 1C/o Relay (to interface AC/DC drive)
	: 2. Pulling Motor Drive Internal: 2Amp (Stepper Drive) External: Clock and Direction (to interface stepper/Servo drive)
External Connection	: 1.Start, Stop and Reset switches 2.Two Sensors (a) For feed check (b) For Cutter Position
LCD Display	: 4 line 20 characters
Configure As	: 1. Pull multiplication Factor 2. Pull Speed - 10 to 200 RPM 3. Acceleration - 22 to 99 msec 4. Pull time - 20 to 99.9%
	: 5. Cutter output - ON/OFF or Continuous
Set Parameter	: 1. Length - 0.1mm to 99999.9 mm 2. Cutter speed - 1% to 99% 3. Pulling speed - 1 to 999 RPM 4. Batch count - 1 to 9999 5. Total count - 1 to 999999 6. 1 set no. of Pieces - 0 to 99 7. Batch delay - 0.01 to 99.9
Output Values	: 1. Function - Run/Stop 2. Count 3. Total 4. Production per hour
No. of Program	: 1000
Overall Size	: 244 (D) x 274 (W) x 114 (H)
Weight	: 3.5 kg

Applications:

- Wire Cutting Machine
- Sleeve Cutting Machine
- Sheet Cutting Machine
- Strip Cutting Machine

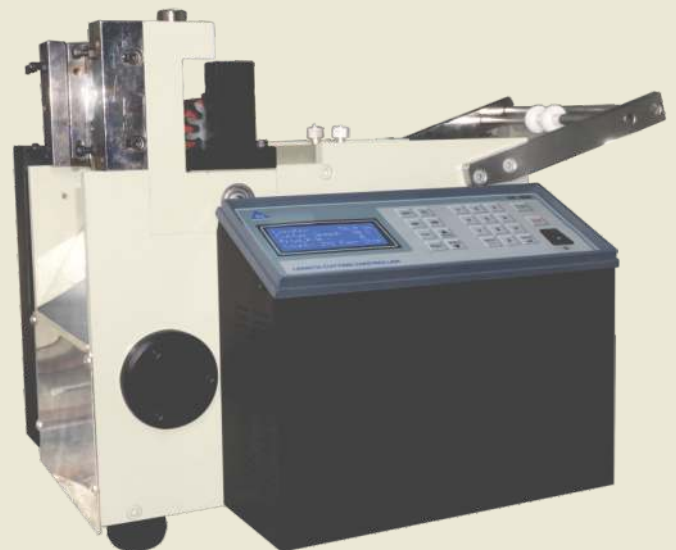


LCC-02SG

Length Cutting Machine is used to cut sleeves, wires, etc into pieces of desired size accurately and precisely. The Sleeve Cutting Machine can be configured manually first and the required parameter can be entered to set the desired program. The machine controls the cutting and pulling actions and calibrates the roller & cutter according to the set parameters.

- Up to 1000 program storing capacity.
- Each program provides independent operation mode selections.
- Program will resume in case of power failure.
- Simple operation.
- Low waste management.
- High production rate.
- Heavy duty machine.
- Length from 0.3 mm to 99999.9 mm can be cut easily.
- Sleeve Up to 115 mm width can be cut easily.
- Easy customized calibration of cutter & roller.
- Guiders provided which makes the machine multi functional.
- Carbide & High Speed Steel cutters used.

Power Supply-	170- 245V AC, 50Hz.
Drive-	(I) For Cutting- Stepper Motor (120 Kg cm).
	(II) For Pulling- Stepper Motor (46 Kg cm).
Dimensions-	473 X 365 X 342mm (LxWxH).
Weight-	62.50 Kg.



LENGTH CUTTING MACHINE

WATER PUMP CONTROLLER

Application:

1. Water in: To fill the water tank.
2. Water in sense: To keep the water pump ON only, when water is present in water source.
3. Water out: To empty the water tank.
4. Water in with ext. start : To fill the water tank.
5. Double Tank: To transfer water from one water tank to another water tank.

Specifications:

Output: 230V, 50Hz, AC for 1 HP motor and start capacitor connecting terminal for submersible pump and Sensor 1, Sensor 2 interfaces.

Dimensions (h*w*d) mm: 100 x 145 x 50.

Light weight, low in cost.

Easy to install and operate.



WATER PUMP CONTROLLER

TAPING MACHINE CONTROLLER

TAP-01 is a automatic Taping Machine Controller,

TAP-01 has two functions, Auto & Manual.

SPECIFICATIONS

Supply	: 85-260V AC
TOTAL Display	: 5 Digit 7 Segment.
TURN Display	: 2 Digit 7 Segment.
Memory Retention	: E ² PROM
Output	: 220V AC
Input	: 220V AC

TAP-01



Sensor Interface Relay Unit (Power Pack)

SPECIFICATIONS

Supply Voltage	: 85-260V AC 50Hz.
Sensor Type	: NPN & PNP
Sensor Supply	: 12V DC
Relay Output	: Relay1-10Amp. Relay2-10Amp.
LED	: 2 LED for status Indication
Knob	: For set delay time (ON & OFF)
Weight	: 200g
Dimensions (mm)	: 61W X 71H X 111D

SRU-01



HEATER FAILURE INDICATORS

- This heater failure indicator is able to detect the specific failed heater.
- It alarms to take care of the other heaters because of the increased load due to one or two heater failures.
- It saves the product from being wasted.

SPECIFICATIONS

Input Supply	: 230V AC \pm 15% ,50Hz
Current transformer	: 1-50 Amperes
Sensing signal	: 65- 230V AC / 24V DC / 4-20mAmp
Indication	: LED indication for ERROR (Red LED and for OK (green LED)

6-CT



Wire Cutting & Stripping Machine WCS-02, WCS-02T (with Twisting)

- Cut single or double wire parallel.
- Wire Sleeve operate by stepper motor.
- Upgrade Twister function in same machine.
- Feeder with wire sens function, if no wire present in feeder, machine will be stop



WCS-02T
with Twisting



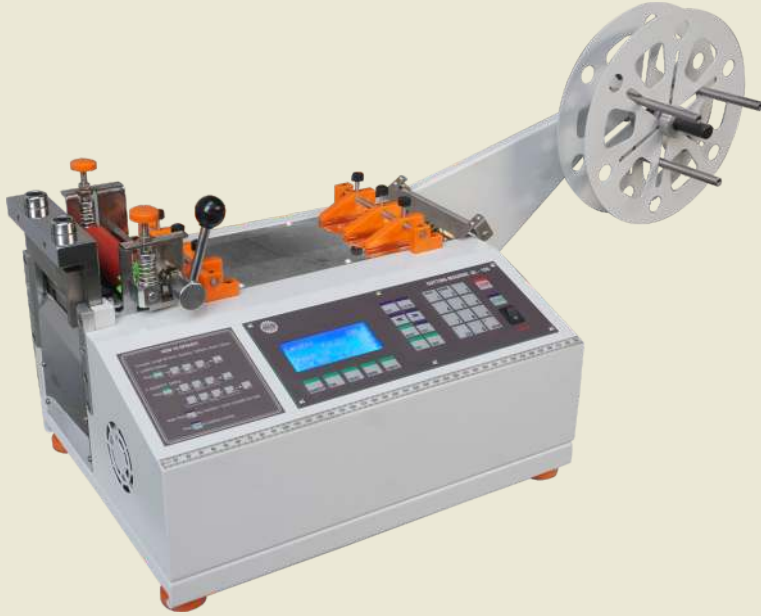
WCS-02

Specifications:

Core Cross-section	0.05mm ² - 2.0mm ² (awg 30 – Awg 16)
Max. Conduit Diameter	Φ4.5mm
Salient Feature	Can Process 2 Wires At One Time
Cutting Length	5 ~ 9999mm
Stripping Length	Head 0~35mm, End 0~35mm
Memory	Max. 500 Programs
Max. Mid Strip Section	Max. 8 Cuts
Cutting Tolerance	<0.1mm Of Cutting Length
Speed Achievable	3000~8000pcs/hour
Display	75x25mm Lcd Display
Drive Mode	4nos. Of Wheel Drives
Blade Material	Carbide & High Speed Steel
Wire Types	Suitable For Wires, Such As PVC, Teflon, Glass Wires, Etc.
I/p Supply & Power	230v AC ±10%
Machine Dimension	585 x 425 x 305mm (LxWxH)
Weight	31.5kgs

Length Cutting Machine GL - 100 & 200

Sleeve Cutting Machine is used to cut sleeves PVC & Nylon, Elastic, Flat Ribbon Cable, Shielding wires, Labels, Ribbon, Silicon Tube etc. into pieces of desired size accurately and precisely. The Sleeve cutting machining can be configured manually first and the required parameter can be entered to set the desired program. The Machine controls the cutting and puling actions and calibrates the roller & cutter according to the set parameters.



GL-100

Dimensions:
450 X 315 X 275mm (LxWxH)
Weight:
22 Kg



GL-200

Dimensions:
435 X 420 X 345mm (LxWxH)
Weight:
33 Kg

Specifications:

- Up to 500 program storing capacity.
- Simple operation.
- Low waste management.
- High production rate.
- Heavy duty machine.
- Each program provides independent operation mode selections.
- Program will resume in case of power failure.
- Length from 0.3 mm to 99999.9 mm can be cut easily.
- Material Up to 100 mm (in GL-100) width can be cut easily.
- Material Up to 180 mm (in GL-200) width can be cut easily.
- Easy customized calibration of cutter & roller.
- Guiders provided which makes the machine multi functional.
- Carbide & High Speed Steel cutters used.
- Power Supply: 230V AC $\pm 10\%$

UN-Windier Machine UN-100

This machine is use for un-winding

Wire Thickness Range: 14 Gauge To 25 Gauge

Specifications:

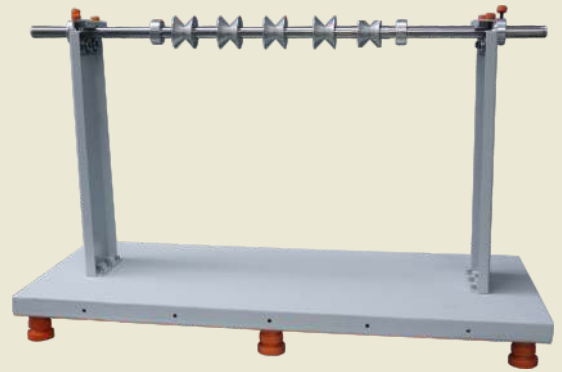
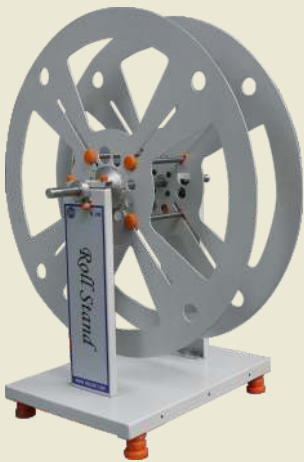
DIMENSIONS: 305 x 400 x 525mm (LxWxH)

WEIGHT: 4.5kg.



RL-100 (ROLL STAND)

- Roll Dia: 600mm Max.
- Material Width: 100mm Max.
- Material Weight: 20kg. Max.
- 400 x 300 x 435mm (LxWxH)



RL-200 (ROLL STAND)

- Roll Dia: 600mm Max.
- Material Width: 500mm Max.
- Material Weight: 20kg. Max.
- 400 x 700 x 435mm (LxWxH)

AF-100 (AUTOMATIC FEEDER)

- Material Width: 100mm Max.
- Pulling Motor 31kg cm stepper motor
- Pulling Speed 10-1000 RPM
- Dimensions: 300 x 715 x 970mm (LxWxH)



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