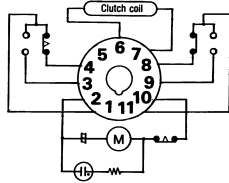


Multirange – H2C



H = 48, W = 48, D (behind bezel) = 77
Panel cut-out = 45 sq

- Synchronous motor operation
- Five time ranges selectable via screwdriver slot recessed into timer face
- 50/60Hz operation, selectable
- Fixed and moving pointers and time out neon indicator
- Reset activated by removal of supply voltage
- Panel mounting using separate adaptor or 11pin plug-in mounting
- **UL, CSA and SEV** approved

Operating mode	Delay on energisation	Contact rating	3A @ 240V ac
Repeat accuracy	±0.5% max.	Operating voltages	110, 230V ac, 50/60Hz
Reset time	0.5s max.	Operating voltage range	85 – 110%
Contact	SPCO (timed) + SPCO (instantaneous)		

Adjustable time range (selectable):
 104-630/1: 0–6s, 0–60s, 0–6m, 0–60m, 0–6hr.
 104-632/3: 0–30s, 0–3m, 0–30m, 0–3hr, 0–30hr.

Operation:

- Option 1: Parallel motor and clutch. Link 2 to 6 and 10 to 7. Timing commences when power applied to 6 and 7.
- Option 2: Separate motor and clutch. Apply power to 2 and 10. Timing will not commence until power is also applied to 6 and 7.
- Contact: Instantaneous contact 11 and 8 opens whilst 11 and 9 closes when power is applied to 6 and 7. Time limit contact 1 and 4 open, whilst 1 and 3 close at end of time interval reset by removing power.

Mfrs. List No. P2CF11 = 425-382, Y92F30 = 104-636, PL11 = 331-788.

17X

Time Range	Voltage	Order Code	Price Each		
			1+	5+	10+
Timers					
0 to 6hr	110V ac	104-630			
0 to 6hr	230V ac	104-631			
0 to 30hr	110V ac	104-632			
0 to 30hr	230V ac	104-633			
Sockets					
Chassis		331-788			
DIN rail/surface		425-382			
Panel mounting adaptor		104-636			

Electromechanical Elapsed Hour Counters

Non-Reset – Type 633



Miniature PCB and Panel Mounting



PCB Mounting: H = 14 (excl. pins), W = 25, D = 31
Pins L = 5.5, Dia = 0.6 on 0.1" grid

Panel Mounting: H = 20, W = 30, D = 34 (behind bezel excl. pins)
Panel cut out = 14.2 x 27

Connections:		Connections:	
1 +V dc	3 Disable output	1 +V dc	2 Disable output
5 No connection	2 -0V	5 No connection	7 -0V

- Miniature 7-digit non-reset elapsed hour counters
- 0.01 hour resolution
- Low power consumption
- Plastic case with magnifier window
- 'Disable Input' allows numerous brief turn-on times without accumulation of 'times since last pulse errors' (timing pulse = 36 seconds)
- PCB version sealed to **IP65** and suitable for flow soldering
- Panel mount version sealed to **IP66** and has solder pin connections

Capacity	99999.99 hr	Pulse duration	31ms every 36s
Supply voltage	5-12V dc ±10%	Operating temp. range	-10°C to +60°C
Current consumption	2mA average, 25mA max. during pulsing		

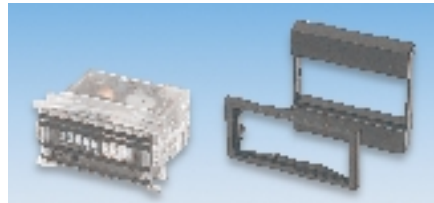
Mfrs. List Nos: 0.633.031 = 233-330, 0.633.831 = 233-341

79

	Order Code	Price Each			
		1+	10+	50+	100+
PCB mounting	.233-330				
Panel mounting	233-341				

Non-Reset – Type 891.

Panel Mounting



H = 24, W = 48, D = 39 (behind panel)
Panel cut-out = 22 x 48 (without bezel)

Bezel A: 29 x 54, panel cut-out 25 x 50
Bezel B: 48 x 48, panel cut-out 45 x 45

- Non-resettable 7-digit elapsed hour counters
- Synchronous motor drive, resolution 0.01hrs
- Polycarbonate housing with spring-fit clip
- Two bezels supplied for panel mounting
- Connection by screw or 6.3 (0.25") fast-on terminals



Capacity	99999.99 hr
Supply voltage:	233-225 110-115V ac +10% -6%, 50Hz 233-237 220-240V ac ±10%, 50Hz
Current consumption:	233-225 4.8mA 233-237 3.9mA
Operating temp. range	-10°C to +50°C
Digit height	5mm

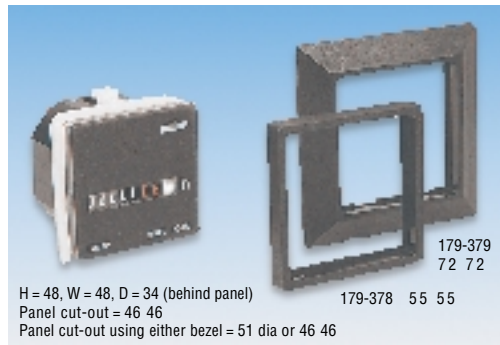
Mfrs. List No: 0.891.607 = 233-225, 0.891.606 = 233-237

77X

Voltage	Order Code	Price Each			
		1+	10+	25+	50+
115V ac	.233-225				
230V ac	.233-237				

Non-Reset

DIN 43700 Standard



H = 48, W = 48, D = 34 (behind panel)
Panel cut-out = 46 x 46
Panel cut-out using either bezel = 51 dia or 46 x 46

- Non-resettable 7-digit motor driven elapsed hour counters
- Housed in Noryl and Makrolon panel mounting case
- Resolution is 0.01hrs for AC types and 0.1hrs for DC types
- Decimal digits in red, others in white
- Frequency of DC type is controlled by quartz crystal
- 2 bezels available
- Supplied with panel mounting bracket, connection by screw or 6.35 (0.25") fast-on terminals

	ac Types	dc Type
Capacity	99999.99 hr	999999.9 hr
Power consumption	1.5W	20mW @ 12V dc
Operating voltage tolerance	±15%	±10%
Operating temperature range	-15°C to +50°C	-15°C to +60°C
Digit height	4.4mm	4.4mm

Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
BW40.18 24VAC	179-374	BG40.17 12-48VDC	179-377
BW40.18 110VAC	179-375	FRAME 55X55	179-378
BW40.18 240VAC	179-376	MASK 72X72	179-379

66X

Voltage	Counters	Order Code	Price Each			
			1+	10+	25+	50+
24V ac 50Hz		179-374				
110V ac 50Hz		.179-375				
240V ac 50Hz		.179-376				
12-48V dc		.179-377				
Bezels						
55	55 mm	179-378				
72	72 mm	179-379				