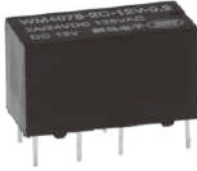

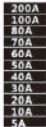

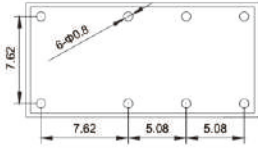
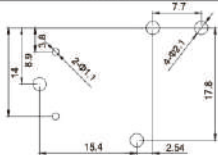
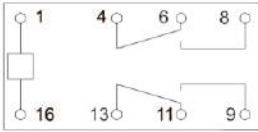
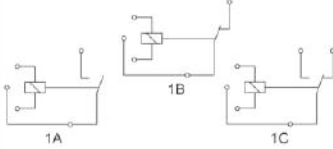




### Telecom Relay

### Heavy Power Relay

Type	YD 4078	YD 690	
Appearance			
Dimension: LxWxH(mm)	20.5×10.2×11.5	26.5×26.5×24.5	
Ordering information:	YD4078 - 2C - 12V - 0.2 - (XXX) 1 2 3	YD690 - 12 - A - S 1 2 3	
	1 Coil rated Voltage(VDC): 3V; 5V; 6V; 9V; 12V; 15V; 24V; 48V 2 Coil rated Power: 0.15: 0.15W; 0.2: 0.2W(standard); 0.36: 0.36W; 0.51: 0.51W 3 Customer special code	1 Coil rated Voltage(VDC): 3V; 6V; 9V; 12V; 15V; 18V; 24V; 48V; 110V 2 Contact Form: A: 1A; B: 1B; C: 1C; 3 Enclosure: S: Sealed; D: Dust Cover; Nil: Open type	
Coil power(W )	0.15,0.2,0.36,0.51	0.9	
Contact Arrangement	2C	1A,1B,1C	
Contact transfer Current (A)	 2A	 40A	
Contact Rating	1A/125VAC , 2A/ 30VDC	1A: 40A/240VAC , 1B: 20A/240VAC 1C: NO:40A/240VAC , NC: 20A/240VAC	
Max. Switching Voltage	240VAC , 60VDC	240VAC	
Max. Switching Current	2A	30A	
Max. Switching Power	125VA 60W	9600VA	
Contact Resistance(mΩ)	≤50mΩ(at 6VDC 0.1A)	≤30mΩ	
Insulation Resistance(mΩ)	100MΩ	100MΩ	
"Dielectric Strength"	Between Contacts	500VAC	500VAC
	Between Coil and Contacts	1000VAC	1000VAC
Ambient Temperature	-30°C ~ +70°C	-40°C ~ +70°C	
Electrical Life	1×10 <sup>5</sup>	1×10 <sup>5</sup>	
Mechanical Life	1×10 <sup>7</sup>	1×10 <sup>7</sup>	
"Mounting Layout (Bottom View)(mm)"			
Wiring diagram			
Weight(Approx.)	5g	30g , 27g(Open type)	
Cross Reference	/	/	



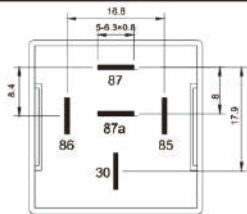
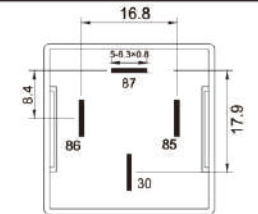
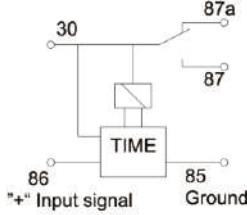
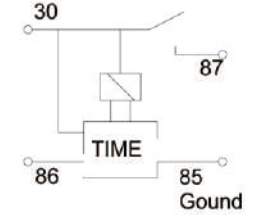
# Automotive Relays



## Magnetic Latching Relay

YD 830	YD 831	YD 832
52×43.2×21.3	53.5×45.2×22	38×30×16
YD830-12-A-2-R-(XXX) 1 2 3 4 5	YD831-12-A-2-R-A-(XXX) 1 2 3 4 5 6	YD832-12-A-S-R-A-(XXX) 1 2 3 4 5 6
1 Coil rated Voltage(VDC): 6V; 12V; 24V; 48V 2 Contact form: A:1A 3 Coil connecting method: 1: 1 coil latching; 2: 2 coil latching 4 Polarity: R:Negative polarity; Nil: Positive polarity 5 Customer special code	1 Coil rated Voltage(VDC):6V;12V;24V;48V 2 Contact form: A: 1A 3 Coil connection method: 1: 1 coil latching; 2: 2 coil latching 4 Polarity: R: Negative polarity; Nil: Positive polarity 5 Version: A: Type A contact terminal; B: Type B contact terminal 6 Customer special code	1 Coil rated Voltage(VDC):6V;9V;12V;24V;48 2 Contact form: A: 1A 3 Enclosure: S: Sealed; Nil: Dust cover 4 Polarity: R: Negative polarity; Nil: Positive polarity 5 Coil connection method: A: Type A PCB load (1 coil latching); B: Type B PCB load(1 coil latching); C: Type C PCB load(2 coil latching) 6 Customer special code
2W,2×4W	2W,2×4W	4W
1A	1A	1A
<b>120A</b>	<b>120A</b>	<b>60A</b>
120A/250VAC	120A/250VAC	60A/250VAC,50A/250VAC,40A/250VAC
400VAC	400VAC	300VAC
120A	120A	60A
30000VA	30000VA	15000VA
≤30mΩ(at 1A 24VDC)	≤30mΩ(at 1A 24VDC)	≤30mΩ(at 1A 24VDC)
100MΩ	100MΩ	100MΩ
2000VAC	2000VAC	1500VAC
4000VAC	4000VAC	4000VAC
-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
1×10 <sup>5</sup>	1×10 <sup>5</sup>	1×10 <sup>5</sup>
1×10 <sup>6</sup>	1×10 <sup>6</sup>	1×10 <sup>6</sup>
51g	88g	52g
/	/	/



Classification		Timer Relay	
Type		YD YS010	YD YS020
Appearance			
Dimension: LxWxH(mm)		30.0×30.0×39.0(+16)	30.0×30.0×39.0(+16)
Ordering information:		YD YS010 - 12 - X - T - M 1 2 3 4	YD YS020 - 12 - X - T - M 1 2 3 4
1	Voltage ( VDC )	DC12;24V	DC12;24V
2	Delay type	X: Delay On; F: Delay Off	X: Delay On; F: Delay Off
3	Delay Time	Delay time: 1s to hours	Delay time: 1s to hours
4	Version	M: Metal; Nil: No Bracket	M: Metal; Nil: No Bracket
Contact transfer Current (A)		40A	40A
Max.Switching Power ( W )		420	420
Operating Voltage		11VDC ~ 15VDC, 22VDC ~ 30VDC	11VDC ~ 15VDC, 22VDC ~ 30VDC
Contact Rating ( Resistive)		40A/14VDC	40A/14VDC
Shock Resistance		147m/s <sup>2</sup> 11ms	147m/s <sup>2</sup> 11ms
Vibration resistance		10 ~ 40Hz Double Amplitude:1.5mm	10 ~ 40Hz Double Amplitude:1.5mm
Terminals strength		100N	100N
Ambient Temperature		- 40°C ~ + 85°C	- 40°C ~ + 85°C
Electrical Life		1×10 <sup>5</sup>	1×10 <sup>5</sup>
Mechanical Life		1×10 <sup>7</sup>	1×10 <sup>7</sup>
*Mounting Layout (Bottom View)(mm)*			
Wiring diagram			
Weight(Approx.)		40g	40g
Cross Reference		/	/



Timer Relay		
YD YS030	YD YS040	YD YS050
30.0×30.0×39.0(+16)	30.0×30.0×39.0(+16)	30.0×30.0×39.0(+16)
YD YS030 - 12 - X - T - M 1 2 3 4	YD YS040 - 12 - X - T - M 1 2 3 4	YD YS050 - 12 - X - T - M 1 2 3 4
DC12;24V	DC12;24V	DC12;24V
X: Delay On; F: Delay Off	X: Delay On; F: Delay Off	X: Delay On; F: Delay Off
Delay time: 1s to hours	M: Metal; Nil: No Bracket	Delay time: 1s to hours
M: Metal; Nil: No Bracket	Pick up delay time: 1s to hours	M: Metal; Nil: No Bracket
<b>40A</b>	<b>40A</b>	<b>40A</b>
420	420	420
11VDC ~ 15VDC, 22VDC ~ 30VDC	11VDC ~ 15VDC, 22VDC ~ 30VDC	11VDC ~ 15VDC, 22VDC ~ 30VDC
40A/14VDC	40A/14VDC	40A/14VDC
147m/s <sup>2</sup> 11ms	147m/s <sup>2</sup> 11ms	147m/s <sup>2</sup> 11ms
10 ~ 40Hz Double Amplitude:1.5mm	10 ~ 40Hz Double Amplitude:1.5mm	10 ~ 40Hz Double Amplitude:1.5mm
100N	100N	100N
- 40°C ~ + 85°C	- 40°C ~ + 85°C	- 40°C ~ + 85°C
1×10 <sup>5</sup>	1×10 <sup>5</sup>	1×10 <sup>5</sup>
1×10 <sup>7</sup>	1×10 <sup>7</sup>	1×10 <sup>7</sup>
40g	40g	40g
/	/	/



Classification		Timer Relay	
Type		YD YSF010	YD YSF020
Appearance			
Dimension: LxWxH(mm)		30.0×30.0×39.0(+16)	30.0×30.0×39.0(+16)
Ordering information:		YD YSF010 - 12 - T - M 1 3 4	YD YSF020 - 12 - T - M 1 3 4
1	Voltage ( VDC )	DC12;24V	DC12;24V
2	Delay type	Delay Off	Delay Off
3	Delay Time	Delay time: 1s to hours	Delay time: 1s to hours
4	Version	M: Metal; Nil: No Bracket	M: Metal; Nil: No Bracket
Contact transfer Current (A)		40A	40A
Max.Switching Power ( W )		420	420
Operating Voltage		11VDC ~ 15VDC, 22VDC ~ 30VDC	11VDC ~ 15VDC, 22VDC ~ 30VDC
Contact Rating ( Resistive)		40A/14VDC	40A/14VDC
Shock Resistance		147m/s <sup>2</sup> 11ms	147m/s <sup>2</sup> 11ms
Vibration resistance		10 ~ 40Hz Double Amplitude:1.5mm	10 ~ 40Hz Double Amplitude:1.5mm
Terminals strength		100N	100N
Ambient Temperature		- 40°C ~ + 85°C	- 40°C ~ + 85°C
Electrical Life		1×10 <sup>5</sup>	1×10 <sup>5</sup>
Mechanical Life		1×10 <sup>7</sup>	1×10 <sup>7</sup>
*Mounting Layout (Bottom View)(mm)			
Wiring diagram			
Weight(Approx.)		40g	40g
Cross Reference		/	/





Timer Relay		
YD YSF030	YD YSX010	YD YSX020
30.0×30.0×39.0(+16)	30.0×30.0×39.0(+16)	30.0×30.0×39.0(+16)
YD YSF030 - 12 - T - M 1 2 3	YD YSX010 - 12 - T - M 1 3 4	YD YSX020 - 12 - T - M 1 3 4
DC12;24V	DC12;24V	DC12;24V
Delay OFF	Delay On	Delay On
Delay time: 10s±2s	Delay time: 1s to hours	Delay time: 1s to hours
M: Metal; Nil: No Bracket	M: Metal; Nil: No Bracket	M: Metal; Nil: No Bracket
<b>40A</b>	<b>40A</b>	<b>40A</b>
420	420	420
11VDC ~ 15VDC, 22VDC ~ 30VDC	11VDC ~ 15VDC, 22VDC ~ 30VDC	11VDC ~ 15VDC, 22VDC ~ 30VDC
40A/14VDC	40A/14VDC	40A/14VDC
147m/s <sup>2</sup> 11ms	147m/s <sup>2</sup> 11ms	147m/s <sup>2</sup> 11ms
10 ~ 40Hz Double Amplitude:1.5mm	10 ~ 40Hz Double Amplitude:1.5mm	10 ~ 40Hz Double Amplitude:1.5mm
100N	100N	100N
- 40°C ~ + 85°C	- 40°C ~ + 85°C	- 40°C ~ + 85°C
1 × 10 <sup>5</sup>	1 × 10 <sup>5</sup>	1 × 10 <sup>5</sup>
1 × 10 <sup>7</sup>	1 × 10 <sup>7</sup>	1 × 10 <sup>7</sup>
40g	40g	40g
/	/	/