

OTXKP	Auto Relay
	Features ● 45A switching capability ● Subminiature, standard PCB layout ● Dustproof type and open type are available ● American open type European dustproof type ● Outline Dimensions: ((26.5 x 22 x22.3) mm ● Typical applications: turn signal, hazard light, car audio, car air conditioning, central door lock, wiper control, instrument control, automatic doors and Windows, anti-theft systems, rear Windows and seats. I

CONTACT DATA

Contact arrangement	1A、1C
Load	Resistive load (COSΦ=1)
Contact material	AuAg
Contact load	NO:40A 14VDC NC:30A 14VDC
Minimum load	0.5A 12VDC
Max. Switching Voltage	60VDC
Max. switching current	40A
Max. switching power	560W
Mechanical endurance	1x10 ⁷ OPS(at 300 times/min)
Contact resistance	100MΩ Max at 6VDC 1A
Electrical endurance	See table below

CHARACTERISTICS

Insulation resistance	100MΩ Min at 500VDC	
Operate time (at rated. volt.)	5ms	
Release time (at rated. volt.)	4ms	
Shock resistance	Functional: 20G	
	Destructive:100G	
Vibration resistance	10-55Hz, 6g	
Humidity	20%~50%RH	
Ambient temperature	-40℃~85℃	
Maximum conversion frequency	Electrical life: 1800 times/hour	
	Mechanical life: 18000 times/hour	
Dielectric strength	Between coil & contacts	500VAC 1min
	Between open contacts	500VAC 1min

Notes:(1) The electrical durability is measured by the normally open contact or normally closed contact.

CONTACT DATA

Contact load voltage	Payload type	Contact load current A			break-make ratio		Electric durability (time)
		1C		1A	Connect S	Disconnect S	
		Normally open type	Normally closed type	Normally open type			
14VDC	Switch on	40	30	40	1.5	1.5	1x10 ⁵
	Disconnect	40	30	40			
	LED	2x21W+5W	-	2x21W+5W	0.375	0.375	1000h
		4x21W+2x5W	-	4x21W+2x5W	0.375	0.375	360h

Notes: 1) when used for flashlight load, wiring should be in accordance with the polarity requirements below; Special AgSnO₂ contact shall be used;

(2) The load wiring diagram is as follows (normally open and normally closed loads are tested separately by different samples);

(3) When the contact load voltage is 24VDC or higher, or the load conditions are inconsistent with this table, the actual test results shall prevail.

COIL DATA

Coil power	Nominal Voltage VDC	Coil Resistance ±10%	Rated Current (mA)	Operation voltage VDC	Drop-out Voltage VDC	Max Applicable Voltage
1.6w	6	23	267	≤3.9	≥0.6	130% of rated voltage at 70℃ and 170% of rated voltage at 23℃
	9	50	178	≤5.85	≥0.9	
	12	90	133	≤7.8	≥1.2	
	24	360	67	≤15.6	≥2.4	
1.9w	6	19	317	≤3.9	≥0.6	
	9	43	211	≤5.85	≥0.9	
	12	76	158	≤7.8	≥1.2	
	24	300	79	≤15.6	≥2.4	

Notes : (1) When users have special requirements different from the above parameters, they can negotiate and order.
(2) 5-24VDC coil resistance tolerance is ± 10%.

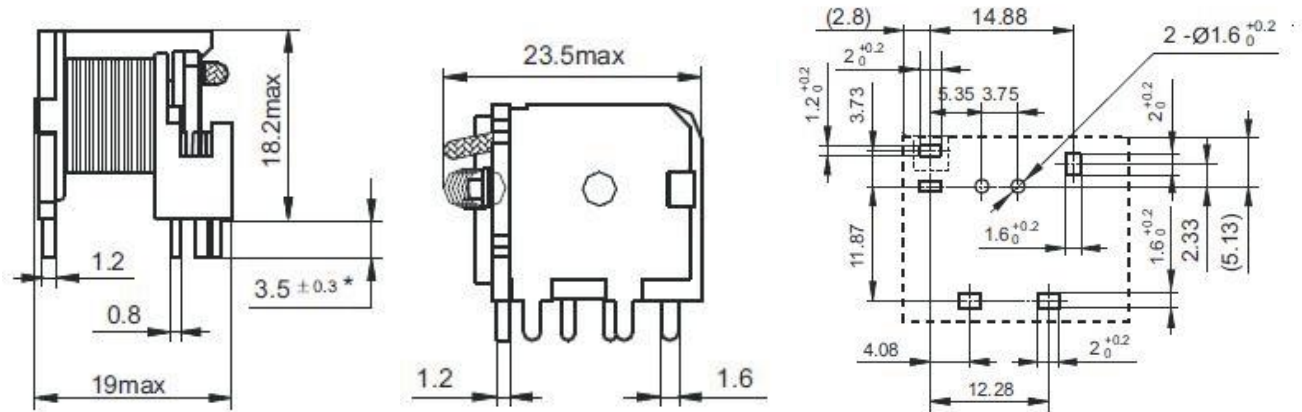
ORDERING INFORMATIO

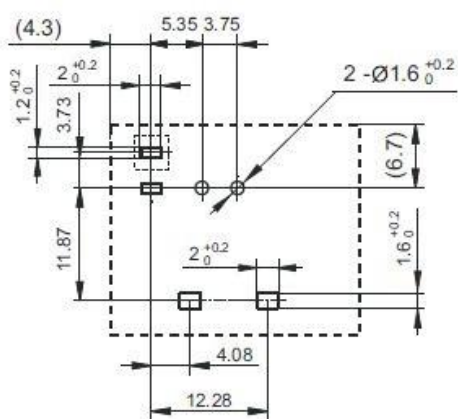
	OTXKP	-S	-12V	-1A	-S	-1	
Type							
Coil power	L: 1.6w	D:1.9w					
Coil voltage	6V, 9V, 12V, 24V						
Contact arrangement	1A:1FormA	1C:1FormC					
Construction :	S: Dustproof type	Nil : Open type					
Encapsulation	1: American open type 2: American dustproof type 3: European open type 4: European dustproof type 5: American type with 3 yoke pins 6: European type with 3 yoke pins						

Notes: (1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S、SO₂、SO₂, dust, etc.). We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S、SO₂、SO₂, dust, etc).

OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT UNIT : MM

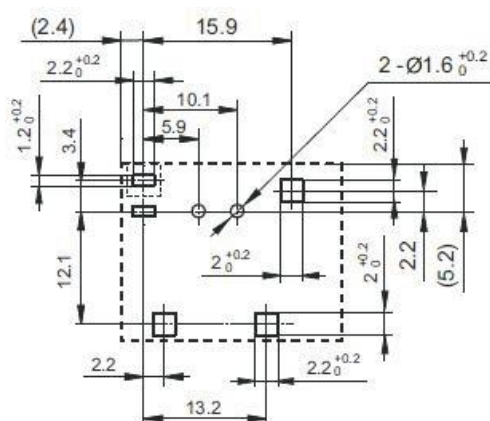
Construction form 1 American open type



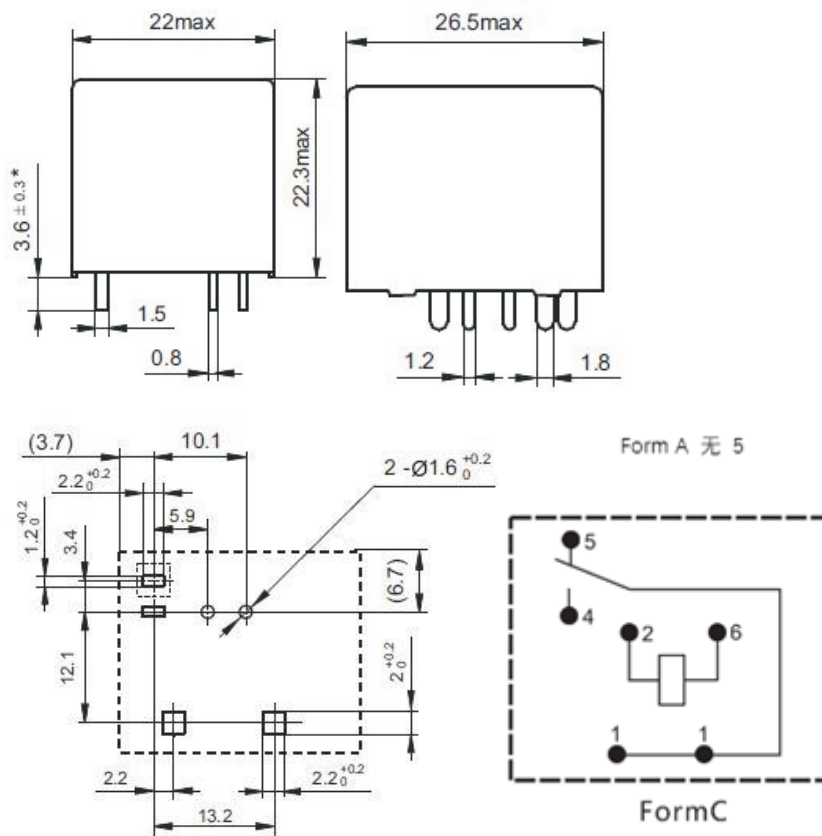


Technical drawing of the 100-pin connector showing side and top views with dimensions:

- Side View (Left):**
 - Overall height: 18.5max
 - Pin pitch (center-to-center): 1.5
 - Pin width: 0.8
 - Overall width: 19max
 - Mounting hole diameter: $3.5 \pm 0.3^*$
- Top View (Right):**
 - Overall width: 24max
 - Pin pitch (center-to-center): 1.2
 - Pin width: 1.8

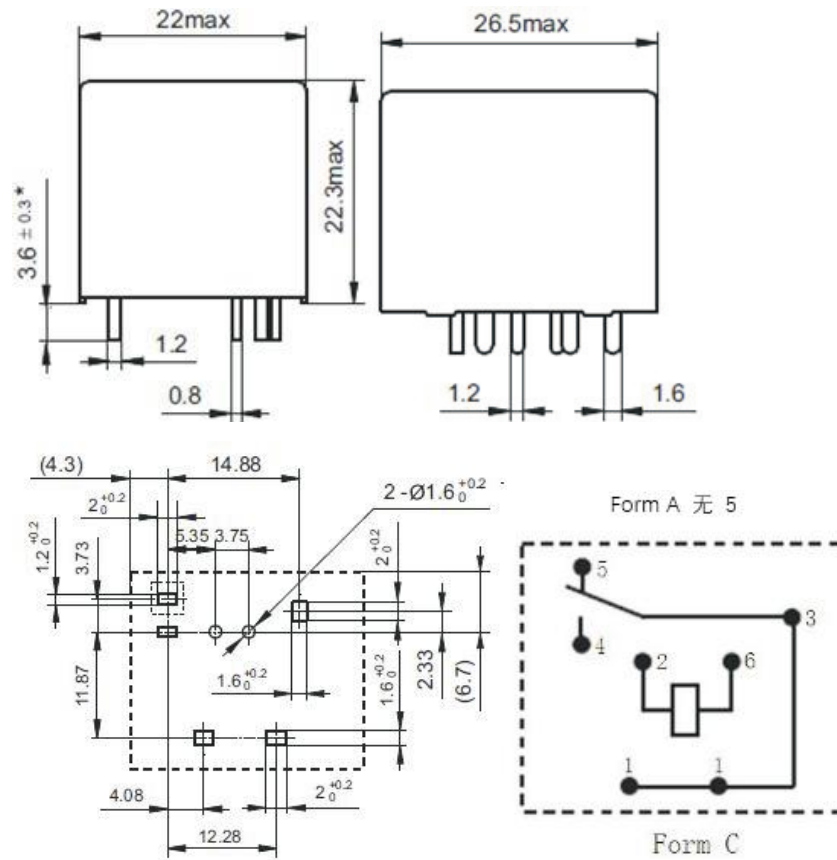


Structure 4 European type dustproof type

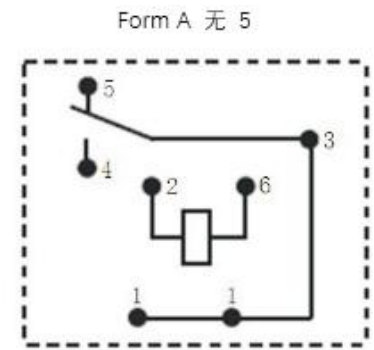
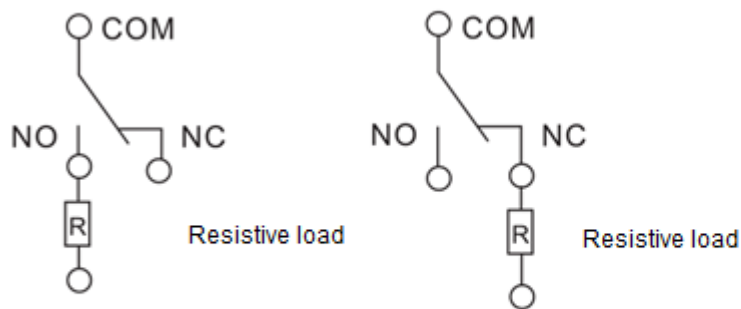


OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT unit : mm

Construction type 5 American dustproof type, with 3 yoke iron pins



Construction 6 European type dustproof, with 3 yoke iron pins



This specification is for reference only, the actual use is subject to the sample, all relays meet ROHS requirements, if there is any change will not be notified. web:www.qingmu.hk