High performance type

Input specification

Item	XBC/XEC-DR32H	XBC/XEC-DN32H XEC-DP32H	XBC/XEC-DR64H	XBC/XEC-DN64H XEC-DP64H	XEC-DR32H/D1 XEC-DR64H/D1
Input points	16 points		32 points		16 points
Rated input voltage	DC 24V				DC 12/24V
Rated input current	4mA (Contact 0~7: 9mA)				5/10mA (Contact 0~7 : 7/15mA)
Operation voltage range	DC 20.4 ~ 28.8V (Ripple rate < 5%)				DC 9.5~30V (Ripple rate < 5%)
On voltage / On current	DC 19V or more/3mA or more				DC 9V or more/3mA or more
Off voltage / Off current	DC 6V or less/1mA or less				DC 5V or less/1mA or less
Input resistance	5.6kΩ (P00 ~ P07: 2.7kΩ)				2.7kΩ (%IX0.0.0~%IX0.0.7:1.8kΩ)
Response time — Off → On / On → Off	1/3/5/10/20/70/100 ms (Setting by CPU parameter) Initial value: 3ms				

Relay output specification

Item		XBC/XEC-DR32H	XBC/XEC-DR64H
Output point		16 points	32 points
Insulation method		Relay insulation	
Rated load voltage / current		DC 24V 2A (Resistive load)/AC 220V 2A (COSØ = 1), 5A/COM	
Min. load voltage / current		DC 5V/1mA	
Max. load voltage		AC 250V, DC 125V	
Off leakage current		0.1mA (AC 220V, 60Hz)	
Max. On / Off frequency		3,600 times/hr	
Service life	Mechanical	20millions times or more	
	Electrical	Rated load voltage/current 100,000 times or more	
		AC 200V/1.5A, AC 240V/1A (COSØ = 0.7) 100,000 times or more	
		AC 200V/1A, AC 240V/0.5A (COSØ = 0.35) 100,000 times or more	
		DC 24V/1A, DC 100V/0.1A (L / R = 7ms) 100,000 times or more	
Response time	Off → On	10ms or less	
	On → Off	12ms or less	
Common method		4 points/COM	P20 ~ 2F: 4 points/COM P30 ~ 3F: 8 points/COM

Transistor output specification

Item		XBC-DN32H/XEC-DN(P)32H	XBC-DN64H/XEC-DN(P)64H
Output point		16 points	32 points
Insulation method		Photo coupler insulation	
Rated load voltage		DC 12/24V	
Load voltage range		DC 10.2 ~ 26.4 V	
Max. load voltage		0.5A / 1point (P20 ~ 23: 0.1A/point)	
Off leakage current		0.1mA or less	
Max. inrush current		4A/10ms or less	
Max. voltage drop (On)		DC 0.4V or less	
Surge absorber		Zener Diode	
Response time	Off → On	1ms or less	
	On → Off	1ms or less (Rated load, resistive load)	
Common method		4 points/COM	P20 ~ 2F: 4 points/COM P30 ~ 3F: 8 points/COM
External power supply	Voltage	DC 12/24V ± 10% (Ripple voltage 4 Vp-p or less)	
	Current	10mA or less (DC 24V connection)	