

## Standard type

### Input specification

Item	XBC/XEC-DN20SU	XBC/XEC-DN30SU	XBC/XEC-DN40SU	XBC/XEC-DN60SU
	XBC/XEC-DR20SU	XBC/XEC-DR30SU	XBC/XEC-DR40SU	XBC/XEC-DR60SU
Input point	12 points	18 points	24 points	36 points
Rated input voltage	DC 24V			
Rated input current	4mA (Contact point 0~1:16mA, 2~7 :10mA), DN20SU (DN30SU) : 4mA (Contact point 0~7: 10mA)			
Operation voltage range	DC 20.4 ~ 28.8V (Ripple rate < 5%)			
On voltage / On current	DC 19V or more/3mA or more			
Off voltage / Off current	DC 6V or less/1mA or less			
Input resistance	5.6kΩ (P00 ~ P07 : 2.7kΩ )			
Response time	Off → On	1/3/5/10/20/70/100ms (Setting by CPU parameter) Initial value : 3ms		
	On → Off			

### Transistor output specification (Sink/Source type)

Item	XBC/XEC-DN20SU	XBC/XEC-DN30SU	XBC/XEC-DN40SU	XBC/XEC-DN60SU
	XBC/XEC-DR20SU	XBC/XEC-DR30SU	XBC/XEC-DR40SU	XBC/XEC-DR60SU
	XBC/XEC-DP20SU	XBC/XEC-DP30SU	XBC/XEC-DP40SU	XBC/XEC-DP60SU
Output point	8 points	12 points	16 points	24 points
Insulation method	Photo coupler insulation			
Rated load voltage	DC 12/24V			
Load voltage range	DC 10.2 ~ 26.4V			
Max. load voltage	0.5A/1 point, 2A/ 1COM			
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	DC 12/24V± 10% (Ripple voltage 4Vp-p or less)		
	On → Off			

### Relay output specification

Item	XBC/XEC-DR20SU	XBC/XEC-DR30SU	XBC/XEC-DR40SU	XBC/XEC-DR60SU
Output point	8 points	12 points	16 points	24 points
Insulation method	Relay insulation			
Rated load voltage/current	DC 24V 2A/AC 220V 2A (COSφ = 1), 5A/COM			
Min. load voltage/current	DC 5V/1mA			
Max. load Current	AC 250V, DC 125V			
Off leakage current	0.1mA (AC 220V, 60Hz)			
Surge absorber	-			
Response time	Off → On	10ms or less		
	On → Off			
Common method (/ COM)	4 points/COM (P40, P41 : 1 point/COM), (P42 P43 : 2 points/COM)			
Life-cycle	Mechanical	Rated load voltage/Current 10 million times or more		
		AC 220V/1.5A, AC 240V/1A (COSφ= 0.7) 10 million times or more		
	Electrical	AC 200V/1A, AC 240V/0.5A (COSφ= 0.35) 10 million times or more		
		DC 24V/1A, DC 100V/0.1A (L / R = 7ms) 10 million times or more		