

## Economic type

### Input specification

Specification	Modal	Main unit			
		XBC/XEC-DR10E XBC/XEC-DN10E	XBC/XEC-DR14E XBC/XEC-DN14E	XBC/XEC-DR20E XBC/XEC-DN20E	XBC/XEC-DR30E XBC/XEC-DN30E
Input point		6 points	8 points	12 points	18 points
Insulation method		Photo coupler insulation			
Rated input voltage		DC 24V			
Rated input current		About 4mA (Contact point 0~3: about 7mA)			
Operation voltage range		DC 20.4~28.8V (Within ripple rate 5%)			
On voltage / On current		DC 19V or higher / 3mA or higher			
Off voltage / Off current		DC 6V or lower / 1mA or lower			
Input resistance		About 5.6k $\Omega$ (%I $\times$ 0.0,0~%I $\times$ 0.0,3: about 2.7k $\Omega$ )			
Response time	Off $\rightarrow$ On	1 / 3 / 5 / 10 / 20 / 70 / 100ms (Set by I/O parameter) Default: 3ms			
	On $\rightarrow$ Off				
Insulation pressure		AC 560Vrms / 3 cycle (Altitude 2000m)			
Insulation resistance		10k $\Omega$ or more by MegOhmMeter			
Common method		6 points / COM	8 points / COM	12 points / COM	18 points / COM
Proper cable size		0.3mm <sup>2</sup>			
Operation indicator		LED On when Input On			
External connection method		14 point terminal block connector (M3 $\times$ 6 screw)		24 point terminal block connector (M3 $\times$ 6 screw)	
Weight		330g	340g	450g	465g
		313g	315g	418g	423g

### Relay output specification

Specification	Modal	Main unit			
		XBC/XEC-DR10E	XBC/XEC-DR14E	XBC/XEC-DR20E	XBC/XEC-DR30E
Output point		4 points	6 points	8 points	12 points
Insulation method		Relay insulation			
Rated load voltage/Current		DC 24V 2A (resistive load) / AC 220V 2A (COS $\phi$ = 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 / hour			
Surge absorber		None			
Service life	Mechanical	20 million times or more			
		Rated load voltage / Current 100,000 times or more			
	Electrical	AC 200V / 1.5A, AC 240V / 1A (CO $\phi$ = 0.7) 100,000 times or more			
		AC 200V / 1A, AC 240V / 0.5A (CO $\phi$ = 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 $\rightarrow$ On	10ms or less			
	On $\rightarrow$ Off	12ms or less			
Common method		2 points / COM	4 points / COM	4 points / COM	4 points / COM
Proper cable size		Stranded cable 0.3~0.75mm <sup>2</sup> (External diameter 2.8mm or less)			
Operation indicator		LED On when Output On			
External connection method		14 point terminal block connector (M3 $\times$ 6 screw)		24 point terminal block connector (M3 $\times$ 6 screw)	