

APPLICATION

To receive a pulse input signal and initiate the operation of secondary circuits.

DESCRIPTION

A range of electro-mechanical current impulse switches containing a flip flop armature attached to a cam. The cam changes the contact position at each input pulse. The contacts may be actuated manually from the front of the relay. A semaphore indicates contact position. A wide choice of contact configurations and switching capacities are available.

PRINCIPLE OF OPERATION

The system control voltage is connected to terminals A1(+) and A2(-). Applying the control voltage to these terminals either by a pulse signal or continuously will change the contact position. The contact will remain in this position even when the voltage is removed. When re-applying the control voltage the contact will change position again. Please see contact position diagrams.

NOTE

S81-002 supplied with DIN rail mounting clips as standard.



Case style A



Case style B



Case style C



Case style D

MODELS AVAILABLE

Model	Case Style	Function	Control Voltages
S12-100	A	1N/O 16A	6, 8, 12, 24, 36, 42, 48, 60, 110, 127, 230, 380, 400V 50Hz 6, 8, 12, 24, 36, 42, 48, 60, 110, 220V dc
S12-200	A	2N/O 16A	
S12-110	A	1N/O + 1N/C 16A	
SS12-110	A	1 + 1N/O 10A	
S81-002	C	2 Changeover 10A	36, 42, 48, 60, 110, 127, 230, 380, 400V 50Hz 12, 24, 36, 48, 60, 110, 220V dc
XS12-100	A	1N/O 25A	
XS12-200	A	2N/O 25A	
XS12-110	A	1N/O + 1N/C 25A	
XS12-400	B	4N/O 25A	
XS12-310	B	3N/O + 1N/C 25A	
XS12-220	B	2N/O + 2N/C 25A	
HK4A	D	1 Changeover 4A	

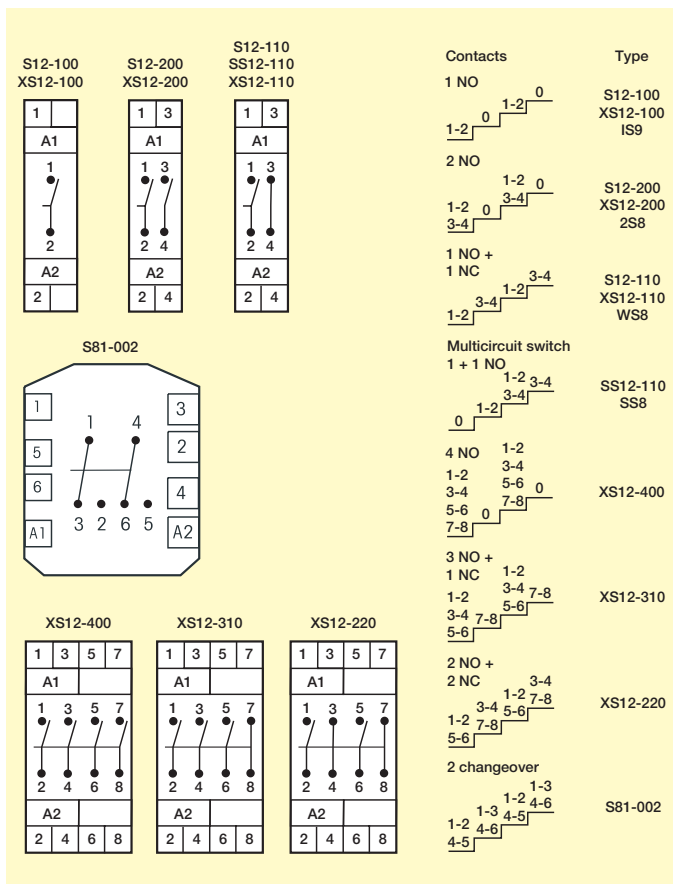
NOTE: HK4A is an auxiliary contact block which can be fitted to any XS12 relay during manufacture.

SPECIFICATION

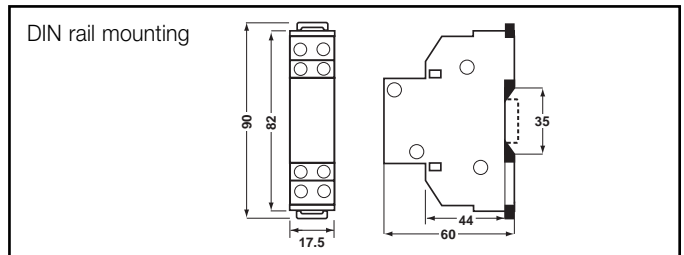
Relative Duty:	1 and 2 pole switches - (●)100%
	3 and 4 pole switches - 60%
	(maximum continuous coil excitation 1hr)
Nominal voltage tolerance	0.9 to 1.1 x Vnom
Minimum command pulse length	50ms
Frequency	50-60Hz ± 5%
Burden	1 pole - 5W
	2 pole - 6W
	3 and 4 pole - 12W
Switching capacity	
XS12	25A 250V ac
	16A 400V ac
	150W dc
S12	16A 250V ac
	10A 400V ac
	100W dc
SS12	10A 250V ac
	6A 400V ac
	100W dc
IS9/S81/SS8/2S8	10A 250V ac/6A 400V ac/
	100W dc
Temperature range	-5° to 35°C

• Note
To operate on continuous duty cycle a 10mm space must be left between units.

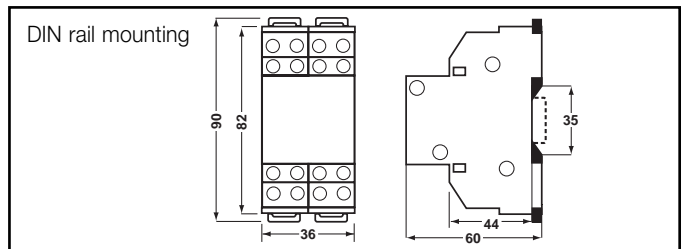
CONNECTION DIAGRAM



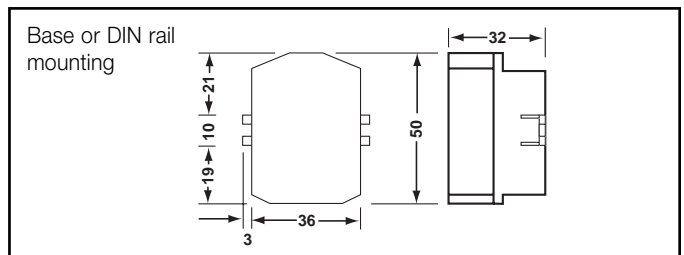
DIMENSIONS



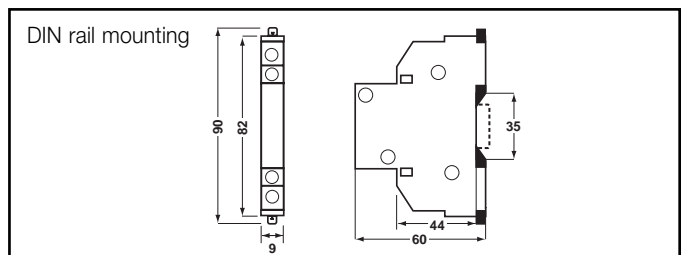
Case style A



Case style B



Case style C



Case style D

Information Required With Order

- Model reference
- Nominal voltage
- Number of contacts
- Switching current

Example: Impulse Relay Type S12-200, 230V 50Hz, 2 N/O contacts, 16A rated