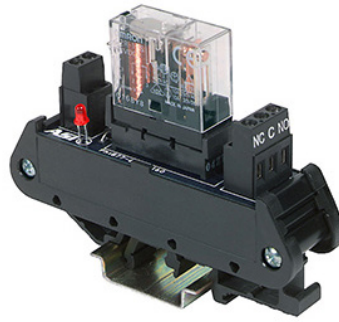


Single Channel Relay Modules SPDT and DPDT

The IMRL series relay modules from ASI feature an open construction style enabling visual contact inspection. The IMRL series is available in a variety of coil voltages with one, two or four Form C contacts. ASI has designed these relay modules specifically for use in industrial automation applications. Both fixed and pluggable relay versions are available, as well as a base-only version.

In order to ensure control system reliability, the IMRL series relay module has been designed with physically separated coil and contact connection points. This separation allows complete isolation of controller and end device wiring to be maintained when building a control panel. IMRL versions with DC control also feature a built-in diode across the coil to prevent damage to sensitive controls resulting from inductive kickback.

FOR MODULES WITHOUT INDICATION, CONTACT ASI FOR TYPE/CATALOG NUMBERS.



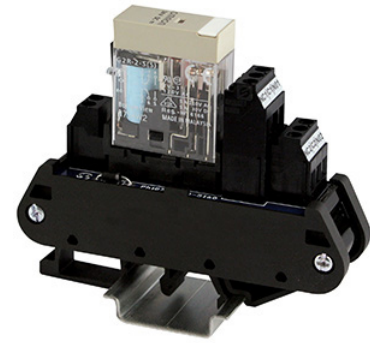
IMRL _ _ _ 1

SINGLE POLE RELAY

PLUGGABLE RELAYS, with indication			
TYPE	CATALOG No.	HEIGHT	CONTROL VOLTAGE
IMRL005P1	14000	3.05" (77.5mm)	5 VDC
IMRL012P1	14001	3.05" (77.5mm)	12 VDC
IMRL024P1	14002	3.05" (77.5mm)	24 VDC
IMRL025P1	14003	3.05" (77.5mm)	24 VAC
IMRL120P1	14004	3.05" (77.5mm)	120 VAC
IMRL230P1	14005	3.05" (77.5mm)	230 VAC

FIXED RELAYS, with indication			
TYPE	CATALOG No.	HEIGHT	CONTROL VOLTAGE
IMRL005F1	14036	2.48" (63.0mm)	5 VDC
IMRL012F1	14037	2.48" (63.0mm)	12 VDC
IMRL024F1	14038	2.48" (63.0mm)	24 VDC
IMRL025F1	14039	2.48" (63.0mm)	24 VAC
IMRL120F1	14040	2.48" (63.0mm)	120 VAC
IMRL230F1	14041	2.48" (63.0mm)	230 VAC

SOCKET ONLY, with indication			CONTROL VOLTAGE
TYPE	CATALOG No.		
IMRL000B1	14090 (without indication)		Any
IMRL024B1	14074		24 VDC
IMRL120B1	14076		120 VAC
IMRL230B1	14077		230 VAC



IMRL _ _ _ 2

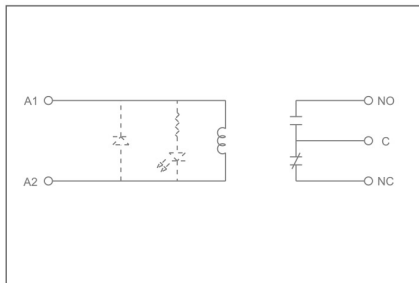
DOUBLE POLE RELAY

PLUGGABLE RELAYS, with indication			
TYPE	CATALOG No.	HEIGHT	CONTROL VOLTAGE
IMRL005P2	14006	3.05" (77.5mm)	5 VDC
IMRL012P2	14007	3.05" (77.5mm)	12 VDC
IMRL024P2	14008	3.05" (77.5mm)	24 VDC
IMRL025P2	14009	3.05" (77.5mm)	24 VAC
IMRL120P2	14010	3.05" (77.5mm)	120 VAC
IMRL230P2	14011	3.05" (77.5mm)	230 VAC

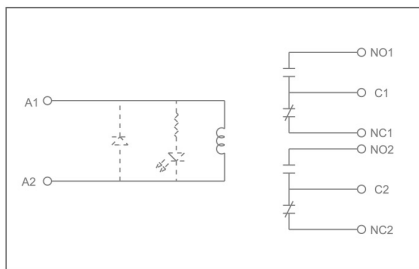
FIXED RELAYS, with indication			
TYPE	CATALOG No.	HEIGHT	CONTROL VOLTAGE
IMRL005F2	14042	2.75" (69.9mm)	5 VDC
IMRL012F2	14043	2.75" (69.9mm)	12 VDC
IMRL024F2	14044	2.75" (69.9mm)	24 VDC
IMRL025F2	14045	2.75" (69.9mm)	24 VAC
IMRL120F2	14046	2.75" (69.9mm)	120 VAC
IMRL230F2	14047	2.75" (69.9mm)	230 VAC

SOCKET ONLY, with indication			CONTROL VOLTAGE
TYPE	CATALOG No.		
IMRL000B2	14091 (without indication)		Any
IMRL024B2	14080		24 VDC
IMRL120B2	14082		120 VAC
IMRL230B2	14083		230 VAC

IMRL...1
TYPICAL SCHEMATIC



IMRL...2
TYPICAL SCHEMATIC



Relay Module Type	Relay Used
IMRL...P1	Omron G2R-1-S
IMRL...B1	Omron G2R-1-S
MRL...P2	Omron G2R-2-S
IMRL...B2	Omron G2R-2-S

COIL TECHNICAL DATA

COIL VOLTAGE	COIL CURRENT	COIL RESISTANCE	PICK-UP VOLTAGE	DROP OUT VOLTAGE	MAX. VOLTAGE	POWER
5 VDC	106mA	47Ω	3.5 VDC	.75 VDC	5.5 VDC	~530 mW
12 VDC	43.6 mA	2.75Ω	8.4 VDC	1.8 VDC	13.2 VDC	~530 mW
24 VDC	21.8 mA	1.1 KΩ	16.8 VDC	3.6 VDC	26.4 VDC	~530 mW
24 VAC	37.5 mA	260Ω	19.2 VAC	7.2 VAC	26.4 VAC	~.9 mW
120 VAC	7.5 mA	6.5 KΩ	96 VAC	36 VAC	132 VAC	~.9 mW
230 VAC	3.8 mA	30 KΩ	192 VAC	72 VAC	264 VAC	~.9 mW

CONTACT TECHNICAL DATA

	RESISTIVE LOAD p.f. = 1.0	INDUCTIVE LOAD p.f. = 0.4
Max. load current	10A at 250 VAC 10A at 30 VDC	7.5 at 250 VAC 5 A at 30 VDC
Max. switching voltage	380 VAC, 125 VDC	380 VAC, 125 VDC
Max. switching capacity	2500 VA, 300W	1875 VA, 150W
Minimum load	100mA, 5 VDC	100mA, 5 VDC
Contact material	AgCdO	AgCdO
Operating frequency mechanical	18,000/hr	18,000/hr
Operating frequency electrical	1,800/hr @ rated load	1,800/hr @ rated load
Contact resistance	30 mΩ	30 mΩ
Pull in time	15 mSec	15 mSec
Drop out time	10 mSec AC 5 mSec DC	10 mSec AC 5 mSec DC

CONTACT TECHNICAL DATA

	RESISTIVE LOAD p.f. = 1.0	INDUCTIVE LOAD p.f. = 0.4
Max. load current	5A at 250 VAC 5A at 30 VDC	2 at 250 VAC 3 A at 30 VDC
Max. switching voltage	380 VAC, 125 VDC	380 VAC, 125 VDC
Max. switching capacity	1250 VA, 150W	500 VA, 90W
Minimum load	10mA, 5 VDC	10mA, 5 VDC
Contact material	AgCdO	AgCdO
Operating frequency mechanical	18,000/hr	18,000/hr
Operating frequency electrical	1,800/hr @ rated load	1,800/hr @ rated load
Contact resistance	50 mΩ	50 mΩ
Pull in time	15 mSec	15 mSec
Drop out time	20 mSec AC 5 mSec DC	20 mSec AC 5 mSec DC