

iSmart Intelligent Relays



Providing the capability of a small plc, iSmart is a flexible, easy to use range of 'intelligent relays'.

Base modules come with either 10 or 20 I/O points expandable up to 44 (including four analogue) by adding a maximum of three expansion modules. A high speed comms option is also available for even greater expandability. Comms module options include Modbus, DeviceNet, Profibus or Ethernet.

With the free software provided, iSmart 'intelligent' relays can be programmed via a PC, PDA (HP ipaq) or the integral keypad, using Relay Ladder (LD) or Function Block Diagram (FDB).

Flexible, easy to use and highly cost-effective, iSmart is ideal for small machine applications including automatic doors, packaging machines, vending machines....



- From 10 to 44 I/O
- Custom high speed processor
- Two options blind or with integral back light display and programmer
- 15 4 line by 12 character messages can be displayed
- 8A output switching capacity
- Up to 4 Analogue inputs (built in)
- 2 1KHz High speed inputs
- Programmable in either Relay Ladder (LD) or Function Block Diagram (FBD)
- 200 lines relay ladder or 99 Function Blocks
- Easy to use free of Charge programming software offering program simulation for Windows 98, 2000, XP, and PDA
- Real Time Clock (RTC)
- 1 Pulse width modulation output (PMW) for position control
- Memory module option
- Communication interface to IMO HMI's
- High Speed Data Link, iSmart to iSmart
- Fieldbus communications Ethernet, Profibus, DeviceNet, Modbus
- Conforms to international standards CE, UL, and cUL
- Multilanguage capability English, German, French, Italian, Spanish, Portuguese, and Chinese
- DIN rail mountable

Options and ordering codes

SMT	-	E	A	-	R	10
Expandable with screen and keys		E				Number of I/O Points 10, 12, 20 or 8 for expansion module
Expandable no screen or keys		B				
Expandable with screen, keys & Comms		C				
Expansion Module		M				
Modbus Module		MODBUS			R	Relay Output
Profibus Module		PROFIBUS			T	Transistor Output
Devicenet Module		DEVICENET			4AI	Analogue Input
Ethernet Module		ENET				
			AC supply 110-240 volt		A	
			24 volt DC supply		D	
			12 volt DC supply		D12	

DC iSmart models

Model No.	Total I/O	Digital DC	Analogue 0-10VDC	Outputs
ED-R12	12	6	2	4xRelays
BD-R12	12	6	2	4xRelays
ED-T12	12	6	2	4xTrans.
ED-R20	20	8	4	8xRelays
BD-R20	20	8	4	8xRelays
CD-R20	20	8	4	8xRelays
CD-T20	20	8	4	8xTrans.

DC expansion modules

MD-R8	8	4	-	4xRelays
MD-T8	8	4	-	4xTrans.
MD-4AI	4	-	(mA/V)	-

Accessories

SMT-PC03	Programming cable
SMT-PDACable	PDA Programming cable
SMT-PM04	Memory module
SMT-Configurator	Software

AC iSmart models

Model No.	Total I/O	Digital AC	Outputs
EA-R10	10	6	4xRelays
BA-R10	10	6	4xRelays
EA-R20	20	12	8xRelays
BA-R20	20	12	8xRelays

AC expansion module

MA-R8	8	4	4xRelays
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Specification

Common

Programme memory	LD: 200 lines FBD: 99 blocks
LCD display (lines x characters)	4 x 12
Enclosure type	IP20
Maximum vibration	1.0G
Operating temperature range	-20 +55°C
Storage temperature range	-40 +70°C
Maximum humidity (relative, non-condensing)	90%
Approvals	UL, cUL, CE

DC models

Input power voltage range 12Vdc	10.4-14.4Vdc
Input power voltage range 24Vdc	20.4 - 28.8Vdc
Output relay contact rating (at 24Vdc, resistive)	8.3A (B300)
Input signal voltage threshold: ON, OFF	>15, <5Vdc
Input signal delay time: ON to OFF, OFF to ON	3.5ms

AC models

Input power voltage range (50/60Hz)	85 - 265Vac
Output relay contact rating (at 250Vac, resistive)	8.3A (B300)
Input signal voltage threshold: ON, OFF	>79, <40Vac
Input signal delay time: ON to OFF, OFF to ON	50-90*; 50-90*ms (240/120V)

Dimensions mm

