

# iSmart: the intelligent choice for precise control...

## two sizes, three types: ac or dc power

# FREE software



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 4-input, 4-output plug-in 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 (pocket PC) or the integral keypad, using Relay Ladder (LD) or Function Block Diagram (FBD).

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
- 8 Amp output switching capability
- Up to 4 Analogue inputs
- 2 1KHz High speed inputs
- Programmable in either relay ladder 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 Pocket PC
- Real Time Clock (RTC)
- 1 Pulse width modulation output (PWM) for position control
- Memory module option
- Communication interface to IMO HMI's or Computer
- High Speed Data Link Modbus enabling remote I/O to be linked, and PC
- Fieldbus communications Ethernet, Profibus DP Slave, DeviceNet, Modbus
- Conforms to international standards CE, UL, and c-UL
- Multilanguage capability English, German, French, Italian, Spanish, Portuguese, and Chinese
- DIN rail mountable



Free programming software for PC or PDA (pocket PC)



10 I/O (AC models), 12 I/O (DC models)



Blind type



20 I/O



Expandable type



Expansion modules  
8 digital I/O (up to 3 per unit)

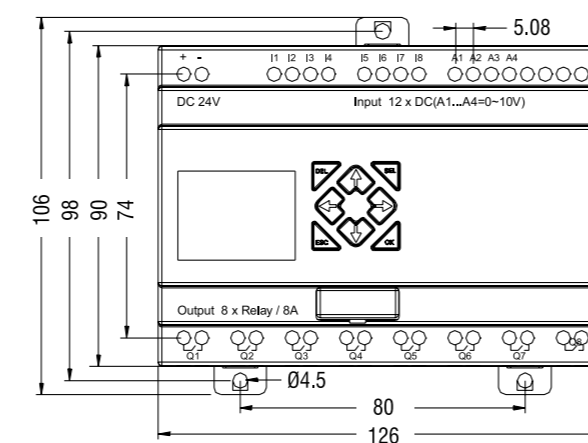


Network comms modules  
(1 per unit)

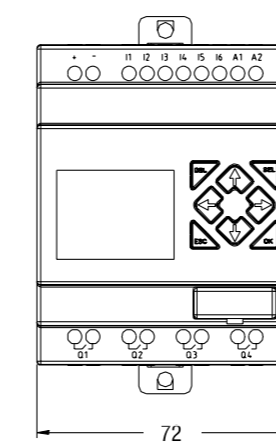


High speed comms. type

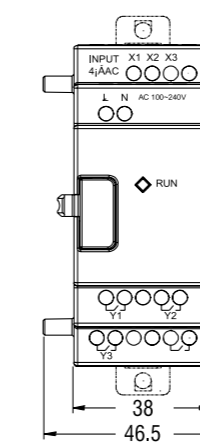
### dimensions



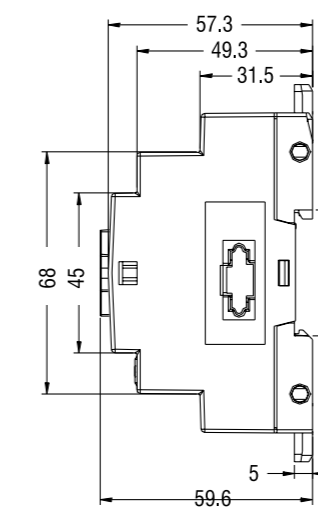
20 I/O



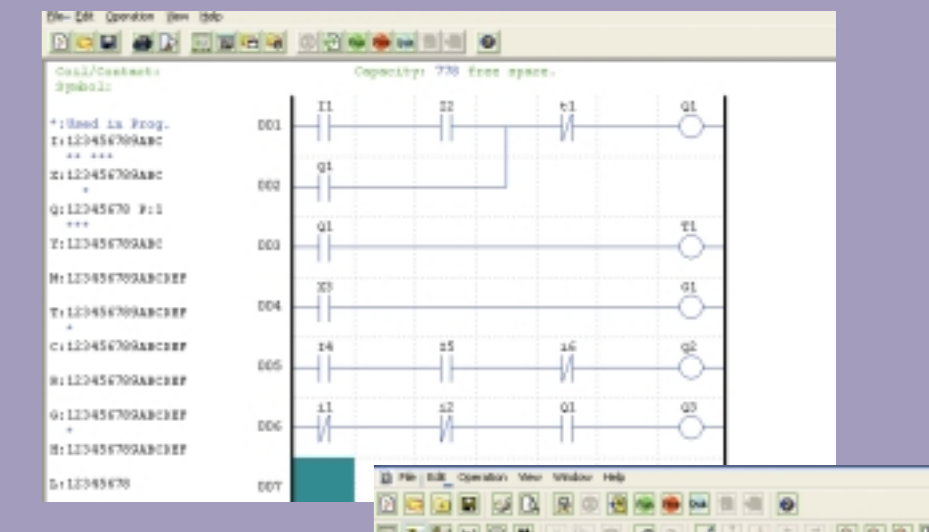
10 and 12 I/O



Expansion module



Configurator, iSmart's free powerful programming software is available for both PC and PDA (pocket PC) and offers two methods of programming...

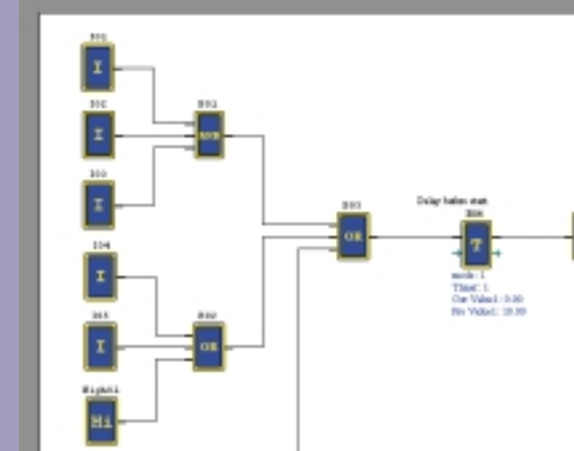


#### Relay Ladder (LD)

Up to 200 lines of instructions with 4 instructions per line, giving a total of 800.

#### Function Block Diagram (FBD)

Up to a total of 99 blocks can be programmed.

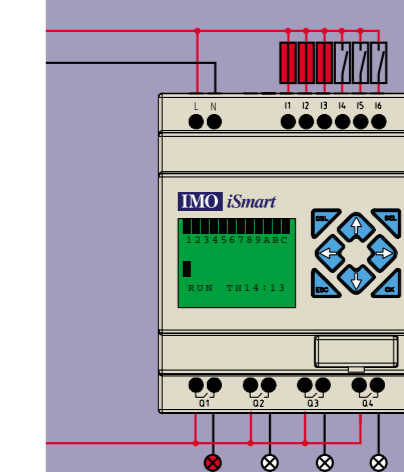


#### Powerful diagnostics

Using iSmart Configurator, programmes can be simulated in either LD or FBD modes. Even the keypad and display can be simulated - ideal for proving designs at your desk.

#### On line monitoring

iSmart Configurator also provides on line monitoring in both LD or FBD modes for rapid fault recognition and diagnosis.



# iSmart

## Intelligent relays

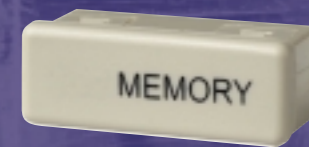
actual size



Bright backlit 4 line x 16 character LCD display

Integral programming and monitoring keypad

Optional programming cable



Flash memory option

8 Amp relay outputs

### ordering codes

#### DC iSmart models

Model No. SMT-	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.

#### AC iSmart models

Model No. SMT-	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
CA-R20	20	12	8xRelays

#### AC expansion module

MA-R8	8	4	4xRelays
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#### Accessories

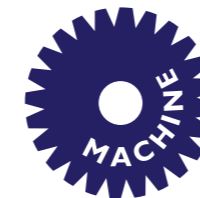
SMT-PC03	Programming cable
SMT-PDACAble	PDA Programming cable
SMT-PM04	Memory module
SMT-Configurator	PC programming software
SMT-PDA Configurator	Pocket PC programming software



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Panel Meters  
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Signal Conditioning  
Sockets  
Timers  
Transformers & Power Supplies



Drives  
Intelligent Terminals/HMI  
Limit Switches  
Photoelectric Switches  
PLCs  
Proximity Switches  
Temperature Controls



Data Acquisition & Control  
Drives  
Intelligent Terminals/HMI  
Limit Switches  
Photoelectric Switches  
Proximity Switches  
PLCs  
Signal Conditioning  
Temperature Controls



Lightguards  
Safety Limit Switches  
Safety Relays

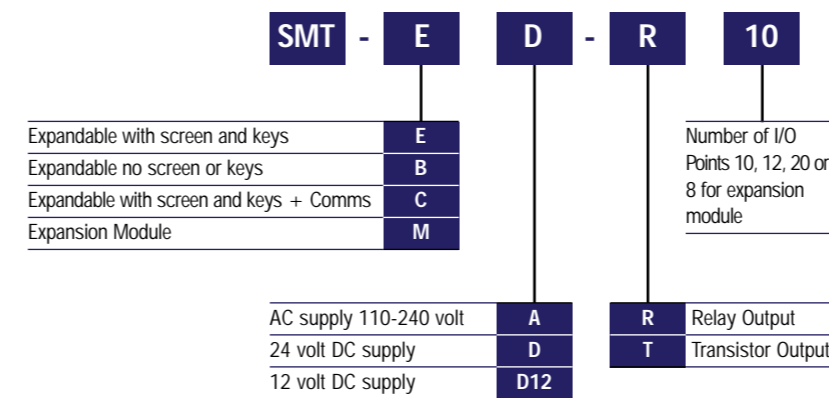


Jaguar VXM 0.37-500kW  
Jaguar VXSM 0.37-7.5kW  
Jaguar CUB 0.37-4kW



Audible devices  
Chip-on-Board  
Device programmers  
LEDs & 7 seg. displays  
PCB Terminal blocks  
Relays - automotive  
Relays - power  
Relays - signal  
Switches

### iSmart numbering system



### 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	0 to 55°C
Storage temperature range	-40 to 70°C
Maximum humidity (relative, non-condensing)	90%
Approvals	UL, cUL, CE

#### DC models

Input power voltage range 12Vdc	10.2-13.8Vdc
Input power voltage range 24Vdc	21.6 - 26.4Vdc
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)

