

FIGURE 783 EASYMIND

The Keystone F783E control head is an Automated Valve Interface Device (AVID) with integrated sensors and solenoid valve with a single connection to the PLC system. For DIGITAL (hard-wired) and BUS control interfaces.



GENERAL APPLICATIONS

- Dairies
- Breweries
- Wineries
- Canneries
- Food processing
- Pharmaceuticals
- Chemical
- Beverages
- Other industries.

TECHNICAL DATA

Control voltage: 24 V DC, 24 V AC, 110 V AC Operating temp.: -10°C to +50°C [14°F to 122°F]

(Non condensing)

Air pressure: 150 to 700 kPa

Position sensor: various C_v : 0.2

Approvals: - ATEX (Via.

Notified Body): II 3G Ex nA II T4

II 3D Ex tD A22 IP65 T85°C

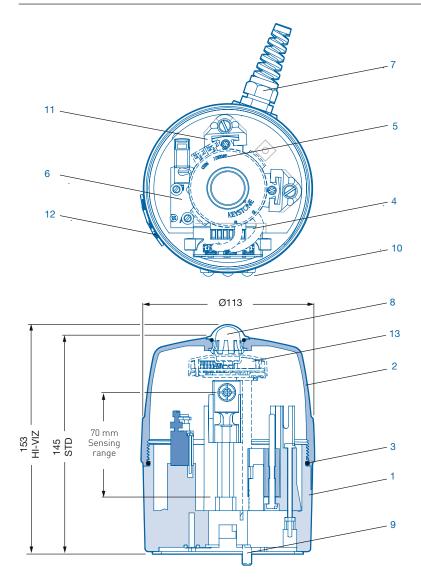
- ATEX

(Certified): II 3D Ex tc IIIB T90 Dc IP65 - IECEx: Ex tD A22 IP65 T90°C

0°C to +50°C (32°F to 122°F) (Cert. No. IEC Ex ITA 11.0016X)

FEATURES

- 24 V DC/AC, 110 V AC, or BUS specific voltages.
- World recognized BUS protocols.
- Keystone technology.
- Modular design.
- Single 5/2 solenoid valve (as standard).
- Bi-directional speed controls.
- Lockable manual override.
- Plug in control module, switches and solenoid.
- Linear and rotary configuration.
- Fully adjustable.
- Corrosion resistant materials.
- Robust IP 65/67 enclosure.
- Enclosure safety vent.
- High visibility valve status LED indicators (side mounted).
- Optional HI-VIZ position LED indicator (top mounted; retrofittable).
- Hazardous area certification to Zone 22
- Optional Intrinsically Safe (IS) component option (non-certified assemble).
- Semi-conductive Nylon enclosure for Ex versions.
- Cable entry options PG7, PG9, M16, M20 (others on request).
- Low power consumption.
- Built-in short circuit protection.



NOTES

Air fittings 6 mm STD. (1/4" Option)

 $\begin{array}{ll} \mbox{IN} = & \mbox{Air inlet port} \\ \mbox{EX} = & \mbox{Exhaust port} \\ \mbox{B} = & \mbox{Outlet port B} \\ \mbox{A} = & \mbox{Outlet port A} \end{array}$

LED factory settings:

Red = Valve closed indication
Green = Valve open indication
Amber = Solenoid valve activated

PARTS LIST

	J LIJ I					
			Material			
No.	Description	Standard version	HI-VIZ version	Ex version		
1	Control head base	GF [1] Nylon (Black)	GF [1] Nylon (Black)	CF [2] Nylon (Black)		
2	Control head cap	GF [1] Nylon (Black)	GF [1] Nylon (Black)	CF [2] Nylon (Black)		
3	Control head O-ring	EPDM	EPDM	EPDM		
4	Control module	Various	Various	Various		
5	Position sensor (proximity type)	-	-	-		
6	Solenoid valve	-	-	-		
7	Cable glands	Polyamide	Polyamide	Various [3]		
8	Relief valve (incl. HI-VIZ lens)	A.E.S / Nylon (Yellow)	Nylon (White)	A.E.S. (Blue) / CF [2] Nylon (Black)		
9	Mounting fasteners	SS304 M6 x 30	M6 x 127	SS304 M6 x 30		
10	LED lenses	Nylon (Clear)	Nylon (Clear)	Nylon (Clear)		
11	Switch pillar	A.B.S.	A.B.S.	A.B.S.		
12	Air fittings	Various	Various	Various		
13	HI-VIZ module	-	Various	-		

NOTE

- 1. GF Nylon = Glass filled Nylon (standard enclosures)
- 2. CF Nylon = Carbon filled Nylon (semi conductive Nylon; Ex enclosures only)
- 3. For cable gland details see nomenclature at last page

A.B.S. Acrylonitrile Butadiene Styrene

A.E.S. Acrylonitrile Ethylene Styrene

FIGURE 783 EASYMIND

TECHNICAL SPECIFICATIONS

	Module types available								
Control head housing	24 V DC PNP	24 V DC NPN	24 V AC	110 V AC	AS-I	D-Net	EEx I [4]		
Туре			For linear and rotary actuators						
Ingress Protection Rating			IP65	, IP67			IP65		
Visual status indication			Υ	es			No		
Impact / Drop test				IEC 61241					
Chemical resistant			Υ	es			Yes		
Safety vented			Υ	es			Yes		
Module			(See module spec	ific tech sheet)			No module		
Proximity sensor std.									
Туре				Inductive					
Output function	Normally Open	Normally Open	Normally Open	Normally Open	Normally Open	Normally Open	Normally Closed		
Short circuit protection	✓	✓	Х	Х	-	-	Χ		
Supply voltage	1030 V DC	1030 V DC	20140 V AC	20140 V AC	1030 V DC	1030 V DC	7.530 V DC		
Voltage drop	< 3.0 V at 100 mA	< 3.0 V at 100 mA	< 5.0 V at 200 mA	< 5.0 V at 200 mA	< 3.0 V at 100 mA	< 3.0 V at 100 mA	-		
Min. load current	-	-	5 mA	5 mA	-	-	-		
Max. leakage current	< 0.01 mA	< 0.01 mA	< 0.8 mA	< 0.8 mA	-	-	< 1 mA		
# Wires	3	3	2	2	3	3	2		
No load current	< 7 mA (Off)	< 7 mA (Off)	< 0.8 mA (Off)	< 08 mA (Off)	< 7 mA (Off)	< 7 mA (Off)	-		
Protection rating	IP67	IP67	IP67	IP67	IP67	IP67	IP65		
Solenoid									
Model	SYJ5153	SYJ5153	SYJ5153	SYJ5153	SYJ5153	SYJ5153	^[5] SYJ5153 + 302 pilot		
Туре				5 Port 2 Way					
Supply voltage	24 V DC	24 V DC	24 V DC	110 V AC	BUS power	BUS power	12 V DC STD		
							(24 V Option)		
Power consumption	0.4 W	0.4 W	0.4 W	1.1 W	0.4 W	0.4 W	0.5 W		
Lockable manual override	✓	✓	✓	✓	✓	✓	X		
Air pressure diff. min./max.		150/700 kPa (14.5/101.5 psi)							
Ambient temperature		Max. 50°C (122°F)							
Allowable voltage			± 1	0% rated voltage			^[6] -0%+30%		
C_{v}				0.19 - 0.21					
Protection rating	IP67	IP67	IP67	IP67	IP67	IP67	IP65		

NOTES

- Control heads can be supplied in a number of different configurations, i.e. with or without solenoid or module and single or dual switching. Different types and makes of switches can also be fitted on request, i.e. proximity (std), reed or microswitch etc. the maximum temperature rating of the control head is limited by the solenoid, which is rated at 50°C (122°F).
- Keystone actuators are factory lubricated and do not need lubricated air. The use of synthetic oils and some mineral oils are known to be damaging to polymer components. Keystone therefore recommends that clean dry air be used.
- 4. Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW

 While the internal electrical components offered with this arrangement are all certified as Intrinsically Safe on a standalone basis, and the enclosure is made from a high grade anti-static semi conductive material. The complete assembly with these parts has not been assessed or certified as Intrinsically Safe.

 Therefore it is the end users responsibility to assess and accept this assembly as suitable for their individual application.
- 5. For EExI units the solenoid valve arrangement is a combination of the standard SYJ5153 valve with the coil replaced with a separately approved intrinsically safe 302 pilot valve/coil.
- 6. Coil designed for continuous duty within the maximum ambient temperature limits. The solenoid valve must be connected to a specific, approved power supply (safety barrier or interface) located in a safe area.

F783 EASYMIND DIGITAL 24 V AC/DC MODULE

The F783/E Digital 24 V AC/DC control module is for use in the F783 Easymind control head and is connected via hard-wired I/O directly to a PLC. This single module can be used for AC and DC (PNP/NPN) type of applications.

FEATURES

- Hard-wired I/O control system.
- Compatible with most common PLC's.
- Easy fit, with simple clip retainers.
- Single module for AC and DC applications.
- 2 limit switch/sensor inputs.
- 1 solenoid valve output.
- Plug-in switches and solenoid valves.
- Fully adjustable limit switches.
- Electronics conformal coated.
- Low power consumption, under 80 mA in normal operational mode (solenoid valve energized, 1 input sensor on).
- Built-in short circuit protection to 250 mA on any output.
- External LED indication of valve position and solenoid valve status.
- Customers preference for field connections.
 - Flying lead with connector.
 - Bulkhead fitted socket.
 - Open wiring system using cable gland (standard).



APPLICATION AREA

This device has been designed for use in any industry where hard-wired Digital control is desired, such as the food, beverage and pharmaceutical industries.

I/O CONNECTIONS

NOTE

Also see 'Wiring and connectors' paragraph

Hard-wired inputs

Input 1: Closed position sensor, red LED indication at front of module (3 wire connection)

Input 2: Open position sensor, green LED indication at front of module (3 wire connection)

Hard-wired output

Output 1: Main solenoid valve, amber LED indication at front of module (2 wire connection)

LED INDICATORS

 $\textbf{Red (left):} \ \text{valve position indication}$

Indicates closed limit switch active (input 1).

Green (centre): valve position indication Indicates open limit switch active (input 2).

Amber (right): solenoid valve

Indicates solenoid valve energized (output 1).

F783 EASYMIND DIGITAL 24 V AC/DC MODULE

GENERAL CHARACTERISTICS

Power supply: 24 V AC/DC (±10%)

Max. switching current: 100 mA at 55°C (131°F)

Number of devices: limited by system power supply

Typical load current situations in (mA)

1 input, no outputs (normal valve closed situation) 40 mA

Main solenoid valve OFF with 1 proximity ON

1 input, 1 output (normal valve open situation) 80 mA

(Main solenoid valve ON with 1 proximity ON)

ENCLOSURE ENVIRONMENT SPECIFICATIONS

Operating temperature: -10°C to +50°C [14°F to 122°F] (non condensing) **Storage temperature:** -10°C to +50°C [14°F to 122°F] (non condensing)

Protection class: See housing specifications

EMC directive: 89/336/EE

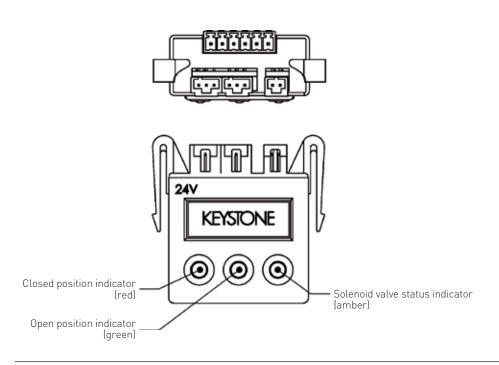
WIRING AND CONNECTORS

The 6-pin PHOENIX plug on the module is connected as follows:

Terminal	AC	DC(PNP)	DC(NPN)
1	Р	+	-
2	N	-	+
3		Closed input signal	
4		Open input signal	
5		Solenoid valve (polarity NOT critical)	
6		Solenoid valve (polarity NOT critical)	

NOTE

If 5 core wire control is required, the negative (-) terminal of the solenoid valve may be connected via a suitable jumper, to the matching polarity terminal at 1 or 2 respectively.



F783 EASYMIND AS-INTERFACE MODULE

The F783/E AS-Interface control module is for use in the F783 Easymind control head and is connected via an AS-Interface master to a PLC.

FEATURES

- Fully AS-Interface version 3.0 compatible A/B slave device (max. 62 slaves).
- Easy fit, with simple clip retainers.
- 2 limit switch/sensor inputs.
- 3 solenoid valve outputs.
- Plug-in switches and solenoid valves.
- Fully adjustable limit switches.
- Electronics conformal coated.
- Low power consumption, under 70 mA in normal operational mode (main solenoid valve energized, 1 input sensor active).
- BUS powered or external power option (selectable with jumper wires on module connector).
- Built-in short circuit protection to 200 mA on any output.
- External LED indication of valve position, solenoid valve status and fault status.
- Customers preference for field connections.
 - Flying lead with connector.
 - Bulkhead fitted socket.
 - Open wiring system using standard cable gland.



APPLICATION AREA

This device has been designed for use in any industry where simple BUS network control is desired, such as the food, beverage and pharmaceutical industries.

AS-INTERFACE 2 IN/3 OUT BIT-MAPPING

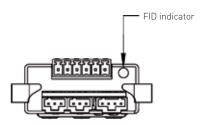
AS-Interface inputs

 $I\emptyset$ (input \emptyset)* Closed limit switch 11 (input 1)* Open limit switch

AS-Interface outputs

0Ø (output Ø)* Main solenoid valve
01 (output 1)* Auxiliary output 1
02 (output 2)* Auxiliary output 2

()* Refers to the physical I/O labeling as referenced on the picture adjacent.



LED INDICATORS

Red (left): valve position indication

Indicates closed limit switch active (input \emptyset ; $I\emptyset$)*

Green (centre): valve position indication Indicates open limit switch active (input 1; I1)*

Amber (right): main solenoid valve

Indicates main solenoid energized (output \emptyset ; $0\emptyset$)*

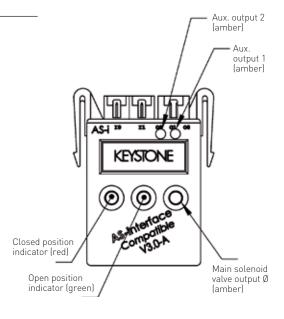
Amber small: optional solenoid valve Indicates (output 1; 01)* is energized

Amber small: optional solenoid valve Indicates (output 2; O2)* is energized

Red small: FID indication (On top of module, unlabeled)

This red indicator is active if the module does not have auxillary power connected (for example the jumpers are not installed) or if the address is = \emptyset

()* Refers to the physical I/O labeling as referenced on the picture adjacent.



F783 EASYMIND AS-INTERFACE MODULE

GENERAL CHARACTERISTICS

Power supply (BUS standard): 30 V DC **Number of slaves:** 62

Data cycle time for A+B slaves: 10 ms maximum

Typical load current situations in (mA)

1 input, no outputs (normal valve closed situation)35 mAMain solenoid OFF with 1 proximity ON(34 mA)*1 input, 1 output (normal valve open situation)63.5 mA(Main solenoid ON with 1 proximity ON)(55 mA)*Recommended maximum power available120 mAfor both addition auxiliary outputs O1 and O2 combined(200 mA)*

()* Denotes load with auxiliary power option

ENCLOSURE ENVIRONMENT SPECIFICATIONS

 $\begin{array}{ll} \textbf{Operating temperature:} & -10^{\circ}\text{C to } +50^{\circ}\text{C (14°F to 122°F) (non condensing)} \\ \textbf{Storage temperature:} & -10^{\circ}\text{C to } +50^{\circ}\text{C (14°F to 122°F) (non condensing)} \\ \end{array}$

Protection class: See housing specifications

EMC directive: 89/336/EE

AS-INTERFACE CONFIGURATION

Device type I/O	code = 7, ID code = A, ID1 = Ø, I	D2 = E	
		I/O structure	
	Input mask		Output mask
Bit	Function	Bit	Function
Ø	Input Ø	Ø	Output Ø
1	Input 1	1	Output 1
2	Not used	2	Output 2
3	Not used	3	Not used

WIRING AND CONNECTORS

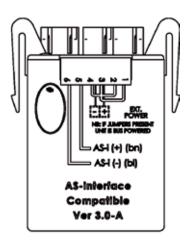
To power the module from the BUS, ensure jumper wires are installed from terminals 1 to 3, and 2 to $4\,$

NB: Jumpers are supplied and fitted as std. on all new control head assemblies.

To power the device from an auxiliary supply, remove the jumper from terminal 1 to 3 and connect $24\ V\ DC$ positive to terminal 3. Connect the supply negative to terminal 4, leaving the jumper from terminal 2 to 4 in place. Do not connect anything to terminal 1.

The PHOENIX plug on the module is connected as follows:

Terminal	AS-Interface
1	Internal 30 V DC +ve (out)
2	Internal 30 V DC –ve (out)
3	External 30 V DC +ve (in)
4	External 30 V DC –ve (in)
5	BUS +ve (brown)
6	BUS -ve (blue)



F783 EASYMIND D-NET MODULE

The F783/E DeviceNet control module is for use in the F783 Easymind control head and is connected directly or via a DeviceNet master to a PLC.

FEATURES

- Fully DeviceNet compatible group two slave device.
- Easy fit, with simple clip retainers.
- 2 limit switch/sensor inputs.
- 3 solenoid valve outputs.
- Plug-in switches and solenoid valves.
- Fully adjustable limit switches.
- Electronics conformal coated.
- Low power consumption, under 70 mA in normal operational mode (main solenoid valve energized, 1 input sensor active).
- Voltage booster for the input sensors and the outputs to 22 volts minimum.
- Internal open/closed limit fault timers.
- Reverse action option.
- Analogue and pulse counter input options.
- Keystone seal kit, valve and actuator assembly part numbers stored on-board the device. These can be re-defined by the user if required.
- User-configured maintenance data stored on-board.

- Users own part numbers for service components.
- User defined service flag.
- Proven CAN communication technology.
- Supports Change-of-State (COS) and polled messaging.
- Built-in short circuit protection to I(max) = 500 mA (internal).
- External LED indication of valve position, solenoid valve, BUS and module status.
- Customers preference for field connections.
 - Flying lead with mini or micro connector.
 - Bulkhead fitted socket.
 - Open wiring system using standard cable gland.
- Permanent record on EEPROM of:
 - Total number of operations since manufacture.
 - Dates of last actuator and valve service.
 - Number of valve operations since last service.
 - Last open and close cycle times.
 - Average time of last 8 cycles.



APPLICATION AREA

This device has been designed for use in any industry where a comprehensive BUS network control solution is desired, such as the food, beverage and pharmaceutical industries.

LED INDICATORS

Red (left): valve position indication Indicates closed limit switch active (input 1).

Green (centre): valve position indication Indicates open limit switch active (input 2).

Bicolor amber/red (right): BUS/module status.

Indicates BUS status and main solenoid valve active (output 1).

DEVICE INPUT MAP

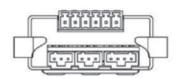
The input status byte describes the state of the module inputs, service flag setting, FTC and FTO timers set, module low voltage alarm, and device failure alarm. The bit pattern is read as follows:

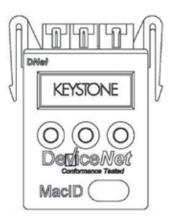
Bit Ø	Closed limit switch ON
Bit 1	Open limit switch ON
Bit 2	Service flag set
Bit 3	Double indication
Bit 4	Failed to open (within set time)
Bit 5	Failed to close (within set time)
Bit 6	Low voltage
Bit 7	Module failed

DEVICE OUTPUT MAP

The 8 bit output byte maps the following network commands to the device:

Bit Ø	Energize output 1
Bit 1	Energize output 2
Bit 2	Energize output 3
Bit 3	Initiate ESD function
Bit 4	Reset failed to open flag
Bit 5	Reset failed to close flag
Bit 6	Reset low voltage flag
Bit 7	Reset module failed flag





NOTES

Only output 1 is controlled by the ESD (Emergency Shut Down) command, the other 2 outputs remain as set in the program.

The service flag is reset by writing a new service count value to parameter 13 either with a manager program, or via the PLC.

F783 EASYMIND D-NET MODULE

General characteristics	
Power supply (BUS standard):	11-25 V DC
Signalling:	CAN
Data rates:	125K, 250K, 500K
Network length:	500/250/100 m at
	125/250/500 kBaud
Number of nodes:	64
Modulation:	Baseband
Encoding:	NRZ with bit stuffing
Typical protocol efficiency:	8%
solation:	500 V
Differential input impedance typical:	Shunt $C = 5 pF$
(recessive state) Shunt R = 25 K Ohms (power on)	
Differential input impedance minimum:	Shunt $C = 10 pF$
(recessive state) Shunt R = 20 K Ohms (power on)	
Absolute max. voltage range:	-25 to +18 V (CAN_H, CAN_L)
Max. recommended load current	250 mA
Short circuit protection internal	350 mA
Typical load current situations in (mA)	
No Output energised, 1 Input ON (normal 'valve-closed' state),	33.2 mA
supply voltage 24 V	
1 Output ON, 1 Input ON (normal 'valve-open' state), supply voltage 24 V	44.0 mA
1 Output ON, 1 Input ON (normal 'valve-open' state), supply voltage 12 V	84.5 mA

ENCLOSURE ENVIRONMENT SPECIFICATIONS

Protection class: See housing specifications

DEVICENET CONFIGURATION

Device type: group 2 slave device

NOTE

For full details on module configuration see separate full DeviceNet feature list.

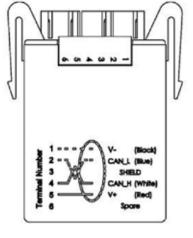
WIRING AND CONNECTORS

The standard F783/E control head with its pig-tail cable gland will take the DeviceNet drop-line cable, allowing for quick and economical conversion from a hard-wired control system to a DeviceNet network.

Other field connection options available on request, of which std. options are shown at the bottom of the 'features' section above.

The PHOENIX plug on the module is connected as follows:

Terminal	DeviceNet
1	V- (black)
2	CAN_L (blue)
3	Screen
4	CAN_H (white)
5	V+ (red)
6	Not used



This device requires a matching EDS (Electronic Data Sheet) to allow the network to recognise the device when connected.

This can be obtained from the factory, contact your sales representative for further details.

F783 EASYMIND DIGITAL 110 V AC MODULE

The F783/E Digital 110 V AC control module is for use in the F783 Easymind control head and is connected by hard-wired I/O directly to a PLC.

FEATURES

- Hard-wired I/O control system.
- Compatible with most common PLC's.
- Easy fit, with simple clip retainers.
- 2 limit switch/sensor inputs.
- 1 solenoid valve output.
- Plug-in switches and solenoid valves.
- Fully adjustable limit switches.
- Electronics conformal coated.
- High visibility solenoid valve and valve status LED indicators.
- Low power consumption, under 25 mA in normal operational mode (solenoid energized, 1 input sensor on).
- External LED indication of valve position and solenoid valve status.
- Customers preference for field connections
 - Flying lead with connector.
 - Bulkhead fitted socket.
 - Open wiring system using standard cable gland.

HARD-WIRED OUTPUTS

I/O connections

NOTE

Also see 'Wiring and connectors' paragraph

Hard-wired inputs

Input 1: Closed position sensor, red LED indication at front of module

(2 wire device 3 wire connection)

Input 2: Open position sensor, green LED indication at front of module

(2 wire device 3 wire connection)

Hard-wired output

Output 1: Main solenoid valve, amber LED indication at front of module

(2 wire connection)

LED INDICATORS

Red (left): valve position indication

Indicates closed limit switch active (input 1).

Green (centre): valve position indication Indicates open limit switch active (input 2).

Amber (right): solenoid valve

Indicates solenoid valve energized (output 1).



APPLICATION AREA

This device has been designed for use in any industry where hard-wired Digital control is desired, such as the food, beverage and pharmaceutical industries.

F783 EASYMIND DIGITAL 110 V AC MODULE

GENERAL CHARACTERISTICS

Power supply: 110 V AC, 50/60 Hz
Max. switching current: 100 mA at 55°C [131°F]
Number of devices: limited by power supply

Typical load current situations in (mA)

1 input, no outputs (normal valve closed situation) 11 mA

Main solenoid valve OFF with 1 proximity ON 1 input, 1 output (normal valve open situation)

25 mA

(Main solenoid valve ON with 1 proximity ON)

ENCLOSURE ENVIRONMENT SPECIFICATIONS

 $\begin{array}{ll} \textbf{Operating temperature:} & -10^{\circ}\text{C to } +50^{\circ}\text{C } \text{ } \text{ } \text{14}^{\circ}\text{F to } \text{ } 122^{\circ}\text{F} \text{] } \text{(non condensing)} \\ \textbf{Storage temperature:} & -10^{\circ}\text{C to } +50^{\circ}\text{C } \text{ } \text{ } \text{14}^{\circ}\text{F to } \text{ } 122^{\circ}\text{F} \text{] } \text{(non condensing)} \\ \end{array}$

Protection class: See housing specifications

WIRING AND CONNECTORS

The PHOENIX plug on the module is connected as follows:

Terminal	Digital 110 V AC	
1	Supply (P)	
2	Supply (N)	
3	Closed output signal	
4	Open output signal	
5	Solenoid (P)	
6	Solenoid (N)	

NOTE

If 5 core control is required, terminals 2 and 6 may be connected via a suitable jumper.

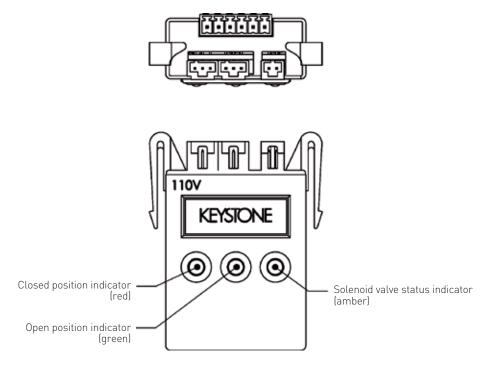


FIGURE 783 EASYMIND

SELECTION GUIDE

Example	ION GUIDE	F783E	24	DC	Р	М	1SA	2PK	CGB	М
	umber	. , , , ,					.54			
F783E	idilibei									
	voltage/Module interface									
24	24 V (Std.)									
110	110 V									
AS-I	AS-Interface									
	DeviceNet									
EEXI	Intrinsically Safe components									
	type: (specify for 24 V and 110 V	onlyl								
C	DC (Std.)	,,								
AC .	AC									
	type: (only relevant to DC rated	l heads)								
)	PNP (Std)	· iicuus,								
N	NPN									
	e connection									
11ter 14t	Module included (Std.)									
Γ	Terminal block included									
	If blank space filler used, modul	le is not include	ed.							
Number	and type of solenoids: (e.g. 1S =		-							
ISA	1 x 5/2 solenoid (Std.)									
SX	No Solenoid but blanking plate	fitted								
	If blank space filler used, no bla		ed							
Number	and type of sensors: (e.g. 2M =									
PK	Proximity switch Keystone (Std.)	1								
- A	Air switch									
- M	Micro switch									
- N	NAMUR sensor (6-12 V DC inpu	t stated at high	est input leve	el)						
· PI	Proximity switch IFM									
- R	Reed switc									
PS	11 mm Barrel proximity switch	c/w 3M cables 8	& SS body							
Electric	al connection: Primary									
CG	Cable gland supplied, specify type	pe with one of t	he following	letters						
	A PG7 C PG16	E M20		G PG16	c/w cable in:	sert				
	B PG9 (Std.) D M16	F M25		H M20	c/w cable ins	ert				
AMP	Amphenol plug									
3H4	4 Pin M12 bulkhead									
3H5	5 Pin M12 bulkhead									
BHV	4 Pin M12 bulkhead c/w Vampir	е								
420	Tapped to M20 thread only (no g	land supplied)	NB: All IEC E	Ex heads sup	plied without	gland				
Air conr	ection style									
М	Metric tubing 6 mm (Std.)									
	Imperial tubing 1/4"									
(Air ports blanked									
Accesso	ries or extender definer									
ΓR	Tropicalised to reduce condensati	ation effect								
ExtDA2	2 IEC Ex certified to Zone 22									
ExII3G	ATEX to Zone 2,22 (Notified Bod	•								
ExII3D	ATEX to Zone 22 (Enclosure bas)							
٠V	High Visibility 360° LED Indication	on unit (Ontion)								

NOTE

- ${\color{blue}^*}\quad \text{Connector types dependant on interface selected, custom options available upon request.}$
- ** Not all options are available on EExI version, consult factory/customer service for guidance.