

idec SmartRelay



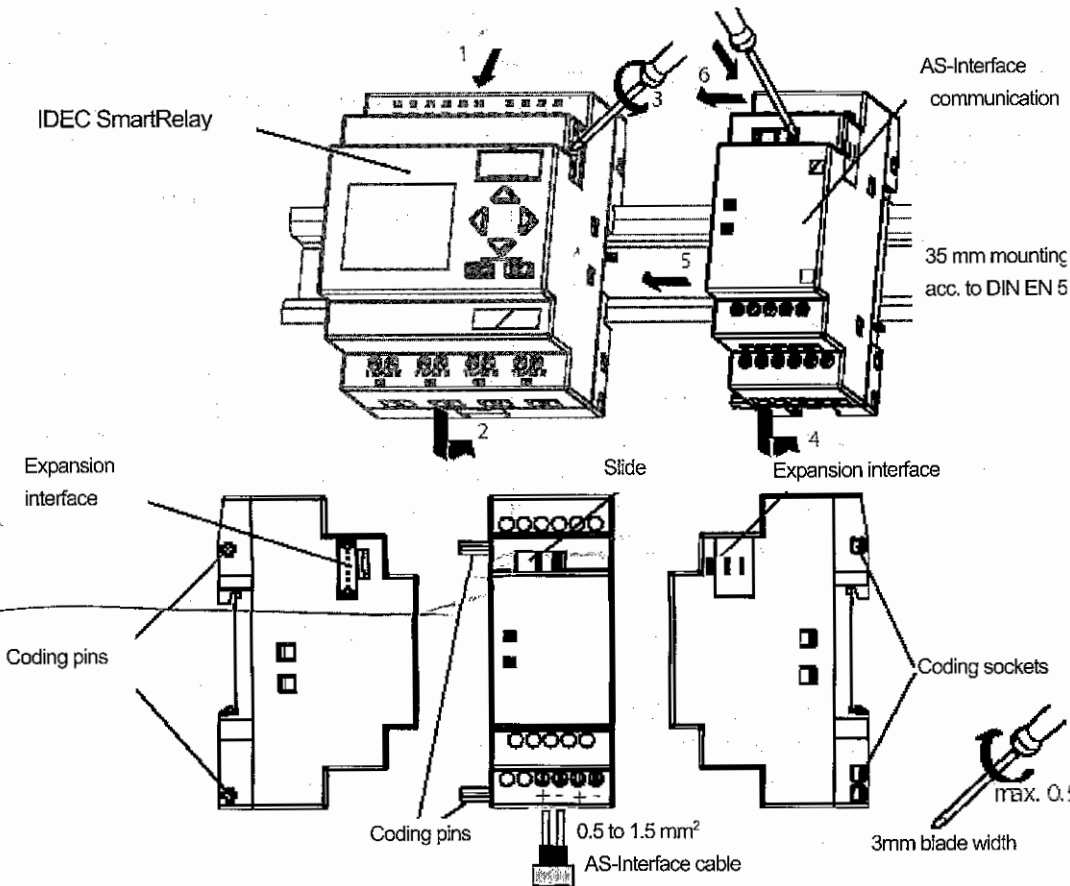
AS-Interface Communication Module FL1B-CAS2

Operating Instructions

Application

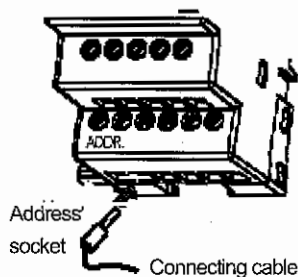
AS-Interface communication module has four virtual inputs and outputs, and acts as an interface between an AS-Interface and the IDEC SmartRelay. The module enables four data bits to be transferred from the IDEC SmartRelay base module to the AS-Interface and vice versa.

Installation/Wiring



For more information please refer to the User's manual (Order No.: FL9Y-B654).

Setting address



In order to set the address, you require the addressing device (Order No.: SX9Z-ADR1N). Valid addresses are 1 to 31. Use each address once only.

If the module is addressed via the address socket in the installed condition, the AS-Interface must be disconnected beforehand.

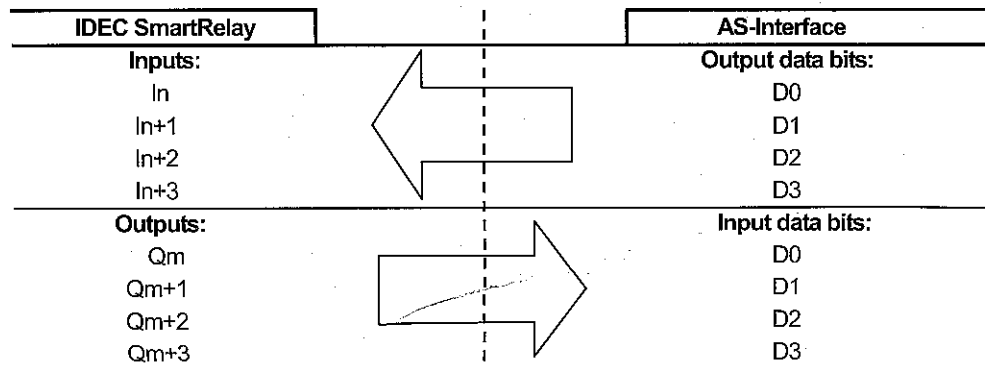
This is necessary for safety reasons.

Commissioning

To start up the module, carry out the following steps:

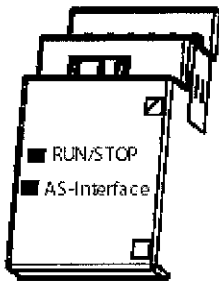
Step	Procedure
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Logic Assignments



"n,m" depends on the plug-in position of the AS-Interface communication module relative the base module. It indicates the number of the inputs or output in IDEC SmartRelay program code.

Status LEDs



The following table shows the status LEDs and their operating status:

AS-Interface	Operating state	RUN/STOP	Operating state
Green	AS-Interface communication OK	Green	Expansion module communicates with left-hand device
Red	AS-Interface communication failed	Red	Expansion module does not communicate with left-hand device
Flashing red/yellow	Slave has address "0"	Yellow	Initialization phase of expansion module
Off	No voltage present on AS-Interface chip	Off	No voltage present on AS-Interface chip

If the AS-Interface voltage failed, communication between the IDEC SmartRelay and the expansion modules, which are arranged to the right of the IDEC SmartRelay AS-Interface communication module, is interrupted.

If communication is interrupted, the switching outputs are reset after about 40 to 100 ms.

The AS-Interface and IDEC SmartRelay must never be connected together electrically!
 Safe isolation acc. to IEC 61131-2, EN 50178, UL508, CSA C22.2 No.142.



Technical data

Normal condition	Operating temperature	0 °C to +55 °C
	Storage temperature	-40 °C to +70 °C
	Relative humidity	10% to 85% (no condensation)
Ratings	Rated AS-interface voltage	30VDC (26.5VDC to 31.6VDC)
	Reverse polarity protection	Yes
Electrical performance	Current consumption	max. 70mA
	EMC	Electrostatic discharge
Mechanical performance		8kV air discharge (IEC61000-4-2)
		4kV contact discharge
	Electromagnetic filed	Filed strength 10V/m (IEC61000-4-3)
	First transient burst pulse	1kV (criteria A) (IEC61000-4-4)
		2kV (criteria B)
Function	Radiated emission	Class A (EN55011)
	Vibration resistance	5Hz to 9Hz (constant amplitude 3.5mm)
Construction		9Hz to 150Hz (constant acceleration 9.8m/s ²)
	Shock resistance	147m/s ² 11ms (X,Y,Z each direction 3 times)
	Slave type	Standard slave
	Profile	I/O code 7
		I/D code F
		I/D2 code F
	Degree of protection	IP20
	Terminal	Screw terminal (Tightening torque : max. 0.5Nm)
	Applicable wire	0.5 to 1.5mm ²
	Instruction	on a 35mm mounting rail acc. to DIN EN 50022 / wall mounting
	Overall dimensions	W36 x H90 x D58mm
	Weight	about 75g