

DIN

DH series

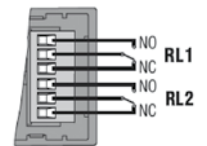
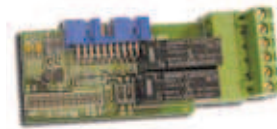
Digital instruments for panel mounting

Types	COMPATIBILITY WITH DH 96 MODULES									Code
	C	A	AV	WG	CPM	P	FT	CT	TPM	
2 relays	•	•	-	•	•	•	•	•	•	M20421
4 relays	•	•	-	•	•	•	•	•	•	M20422
2 relays + RS-485 or RS-232 (Modbus/RTU)	•	•	-	•	•	•	•	•	•	M20423
Analogue output 0 / 4...20 mA	•	•	-	•	•	•	•	•	•	M20425
Analogue output 0 / 2..10 V	•	•	-	•	•	•	•	•	•	M20426
RS-232 (Modbus/RTU)	•	•	-	•	•	•	•	•	•	M20427
RS-485 (Modbus/RTU)	•	•	-	•	•	•	•	•	•	M20428
Analogue output 0 / 4...20 mA + 2 relays	•	•	-	•	•	•	•	•	-	M20429

Module 2 relays

Description

Features

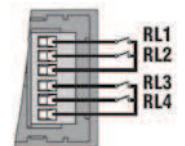
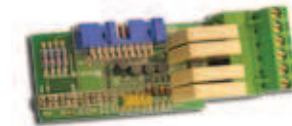


Relay	Switched
Nominal AC Current	8 A
Maximum voltage	250 Vac
Maximum resistive load	2000 V·A
Insulation resistance (at 500 V dc)	>1000 M
Contact - coil insulation	4 kV
Contact - contact insulation	1 kV
Mechanical working life (No. of operations)	>10 ⁷
Electrical working life (8 A; 250 V ac) (No. of operations)	>10 ⁵
Standards	VDE 0435, VDE 0700, VDE 0110, VDE 0106

Module 4 relays

Description

Features



Relay	Simple
Nominal AC Current	5 A
Maximum voltage	250 Vac
Maximum resistive load	750 V·A
Insulation resistance (at 500 V dc)	>1000 MΩ
Contact - coil insulation	2 kV
Contact - contact insulation	750 Vac
Mechanical working life (No. of operations)	>20 x 10 ⁶
Electrical working life (8 A; 250 V ac) (No. of operations)	>30 x 10 ³
Standards	UL 508, C22.2 no. 14, VDE 0435

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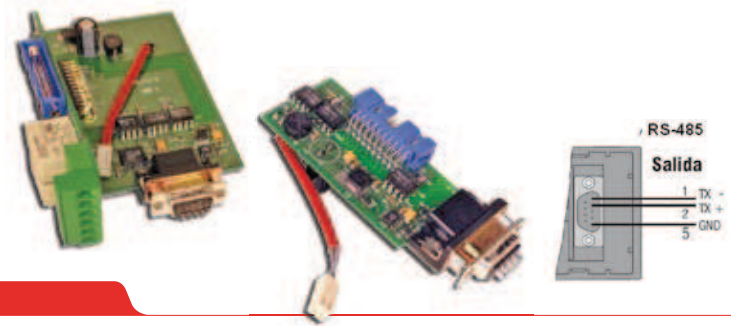
Communications module

Description

- 0 to 247 programmable peripherals
- Selection of peripheral number
- (only in RS-485)
- Selection of communication parameters: speed, parity and stop bits

Features

	RS-232 Module	RS-485 Module
EDS Protection	Up to 10 kV ac	Up to 2 kV ac
Communication lines protected against overloads, short-circuit to earth	30 V without damage	-
Protected against blockages	Yes	-
Communication lines with thermal protection against excessive power dissipation	-	Yes
Connection or disconnection from the active network	-	Yes
Standards	EIA RS-232	EIA RS-485



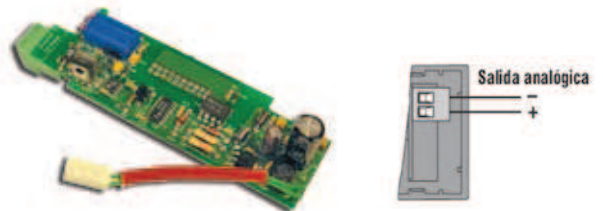
Analogue output module

Description

- Output option:
- 0 20 mA or 4 20 mA
- 0 10 V or 2 10 V
- Range of programmable output

Features

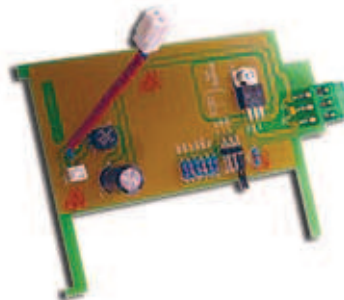
Resolution	14 bits
Maximum load impedance for current outputs	500
Maximum load impedance for voltage outputs	500
Insulation between analogue outputs and the power supply	3 kV
Insulation between analogue and measurement outputs	3 kV
Response time	< 100 ms
Rippling, in TRMS	< 0,5 %
Temperature coefficient	100 ppm / °C
Standards	IEC 1010, IEC 529, IEC 801, EN 50081-2, EN 5002-2



Auxiliary power supply module (DH96P)

Description

- Selectable auxiliary voltage: 5, 10, 15 Vdc
- Compatible with all modules (except for relays and communications)
- Power supply for 2 and 3 wire sensor
- 0 / 4...20 mA
- Maximum power 1 V·A



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Description

COMMUNICATIONS Features

- 0 to 247 programmable peripherals
- Selection of instrument direction (only in RS-485)
- Selection of communication speed: 1200, 2400, 4800, 9600 and 19200 bits/s
- Selection of parity: even, odd or no parity
- Selection of stop bits: 1 or 2

COMMUNICATIONS Features

	RS-232 Module	RS-485 Module
EDS Protection	Up to 10 kV	Up to 2 kV
Communication lines protected against overloads, short-circuit to earth	30 V without damage	-
Communication lines with thermal protection against excessive power dissipation	-	Yes
Connection or disconnection from the active network	-	Yes
Fully protected against blockages	Yes	-
Standards	EIA RS-232	EIA RS-485

RELAYS Features

- Maximum or minimum alarm connection
- Selectable delay to alarm connection and disconnection, programmable between 1 and 9999 s
- Selectable hysteresis of between 1 and 9999 points
- Alarm interlocking option
- Option of fail-safe relay

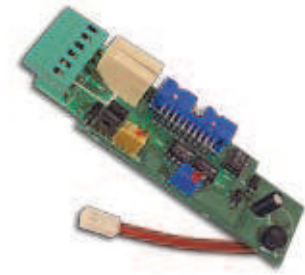
RELAY Features

	2 Relays	4 Relays
Nominal current	8 A	5A
Maximum voltage	250 Vac	
Maximum resistive load	2000 V-A	750 V-A
Insulation resistance (at 500 Vdc)	>1000Ω	Yes
Contact - coil insulation	4 kV	2 kV
Contact - contact insulation: 2/4 relays	1 kV	750 Vac
Mechanical working life (No. of operations)	10 ⁷	20 x 10 ⁶
Electrical working life (8 A and 250 V) (No. of operations)	> 10 ⁵	>30 x 10 ⁴
Standards	VDE 0435, VDE 0700, VDE 0110, VDE 0106	UL 508, C22.2 no. 14, VDE 0435

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Communications module + 2 relays

Description

ANALOGUE OUTPUT

Features

- Optional output programming: 0...20 mA or 4...20 mA
- Programmable output range

ANALOGUE OUTPUT Features

Resolution	14 bits
Maximum load impedance for current outputs	500 Ω
Minimum load impedance for voltage outputs	500 Ω
Insulation between analogue outputs and the power supply	3 kV
Insulation between analogue and measurement outputs	3 kV
Response time	< 100 ms
Rippling, in TRMS	< 0,5 %
Temperature coefficient	100 ppm / °C
Standards	IEC 1010, IEC 529, IEC 801, EN 50081-2, EN 50082-2

RELAYS

Features

- Connection of alarm when maximum or minimum values are reached
- Alarm connection and disconnection delay, programmable between 1 and 9,999 seconds
- Hysteresis can be selected between 9,999 and 9999 points
- Optional alarm interlocking
- Optional fail-safe relay

2 RELAY OUTPUT Features

Maximum voltage	250 Vac
Maximum resistive load	750 V·A
Insulation resistance (at 500 Vdc)	> 1 000 M
Contact - coil insulation	2 kV
Contact - contact insulation	750 Vac
Mechanical working life	20 x 10 ⁶ operations
Electrical working life (8 A and 250 V)	> 30 x 10 ³ operations
Temperature coefficient	> 30 x 10 ³ operations
Standards	UL 508, C22.2, VDE 0435

Coding table

M	2	X	X	X	X	0	0	X	X
Code						Internal Code	↑	↑	
Auxiliary power supply	Standard (230 V)					0			
	100 ... 120 V ac					1			
	380 ... 400 V ac					3			
	480 ... 500 V ac					4			
	18 ... 36 V dc					7			
	36 ... 72 V dc					8			
	40 ... 170 V dc					9			
Current input	Standard (... / 5 A)					0			
	... / 1 A					1			