

Product characteristics

Active CompactLine module

AS-i flat cable connection

Sockets M12 x 1

IR addressing possible

Digital inputs and outputs

Electrical data

Electrical design

4 inputs / 4 outputs

Operating voltage [V] 26.5...31.6 DC (AS-i) / 10...30 DC (AUX); cULus - Class 2 source required

Total current consumption from AS-i [mA] < 250

Max. current load per module [mA] 4000

Inputs

digital

Circuit PNP

Sensor supply AS-i

Voltage range [V] 20...30 DC

Max. current load for all inputs total [mA] 200

Input current limitation [mA] 15

Input current High/Low [mA] 6...10 / 0...2

Switching level High signal 1 [V] > 11

Short-circuit proof yes

Outputs

digital

Output function transistor PNP

Voltage range [V] 10...30 DC

External voltage supply to PELV *)

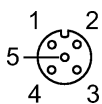
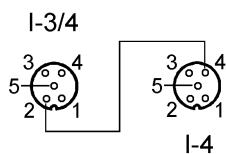
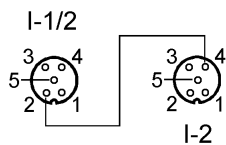
Max. current load per output [mA] 2000 **)

Electrically separated yes

AC2459 - Active CompactLine module - eclass: 27259090 / 27-25-90-90

Integrated watchdog	yes																																			
Short-circuit proof	yes																																			
Environment																																				
Ambient temperature [°C]	-25...80																																			
Protection	IP 67; (enclosure type 1); when flat cables E7400x and E7401x are used																																			
Tests / approvals																																				
EMC	EN 50295																																			
AS-i classification																																				
AS-i version	2.11 + 3.0																																			
Extended addressing mode possible	no																																			
AS-i profile	S-7.F.E																																			
I/O configuration [hex]	7																																			
ID code [Hex]	F.E																																			
AS-i certificate	40401																																			
Data bits	<table border="1"> <thead> <tr> <th>Data bit</th> <th>D0</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td>Input</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>Socket</td> <td>I-1/2</td> <td>I-1/2 / I-2</td> <td>I-3/4</td> <td>I-3/4 / I-4</td> </tr> <tr> <td>Pin</td> <td>4</td> <td>2 4</td> <td>4</td> <td>2 4</td> </tr> <tr> <td>Output</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>Socket</td> <td>O-1</td> <td>O-2</td> <td>O-3</td> <td>O-4</td> </tr> <tr> <td>Pin</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	Data bit	D0	D1	D2	D3	Input	1	2	3	4	Socket	I-1/2	I-1/2 / I-2	I-3/4	I-3/4 / I-4	Pin	4	2 4	4	2 4	Output	1	2	3	4	Socket	O-1	O-2	O-3	O-4	Pin	4	4	4	4
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Mechanical data																																				
Housing materials	PA; socket: brass nickel-plated; threaded inserts in the lower part: brass nickel-plated; O-Ring (socket): Viton; Piercing contacts: CuSn6 surface nickel and tin-plated																																			
Weight [kg]	0.377																																			
Displays / operating elements																																				
Power LED	green																																			
Error LED	red																																			
Function display LED	yellow																																			
Electrical connection																																				

Wiring



Inputs
 Pin 1: Sensor supply +
 Pin 2: Data input
 Pin 3: Sensor supply -
 Pin 4: Data input
 Pin 5: functional earth (FE)

Outputs
 Pin 3: External voltage AUX -
 Pin 4: Switching output
 Pin 5: functional earth (FE)
 Pin 1, 2: not used

Accessories	
Accessories (optional)	stainless steel sleeve for installation in case of high mechanical stress (E70402)
Remarks	
Remarks	*) via black flat cable **) Utilisation category (DC13): The switch-on and switch-off capacity for the triggering of solenoids is rated up to 20 W (to IEC 60947-5-1)
Pack quantity [piece]	1