

1: Addressing socket  
2: Combicon plug with screw terminals (optional)



Product characteristics

Active AS-i module	
Mounting on DIN rail	
Combicon connection	
String mounting possible	
Addressing socket	
Input supply from external PELV voltage source	
Version 2.1 with extended addressing mode	
Digital inputs and outputs	

Electrical data

Electrical design	4 inputs/ 2 outputs / relay
Operating voltage [V]	26.5...31.6 DC (AS-i)
Total current consumption from AS-i [mA]	< 50
Max. current load per module [mA]	6000 ***)

Inputs

digital	
Circuit	PNP
Sensor supply	via E+/E- / external to PELV
Voltage range [V]	20...30 DC
Max. current load for all inputs total [mA]	500
Input current High/Low [mA]	6...10 / 0...2
Switching level High signal 1 [V]	> 11
Short-circuit proof	yes

Outputs

digital	
Output function	Relay
Voltage range [V]	10...240 AC / 24 DC *)
External voltage supply	yes
Max. current load per output [mA]	6000 ***)
Electrically separated	ja **)
Integrated watchdog	yes
Short-circuit proof	no

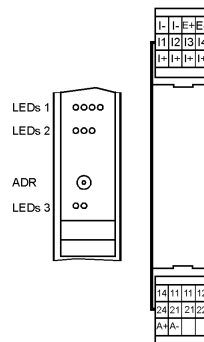
Environment

# AC2255 - Active AS-i module - eclass: 27259090 / 27-25-90-90

Ambient temperature [°C]	-25...70, cRUus: surrounding air temperature -25...60 °C				
Protection	IP 20				
Tests / approvals					
EMC	EN 50295 EN 50178				
MTTF [Years]	410				
AS-i classification					
AS-i version	2.1				
Extended addressing mode possible	yes				
AS-i profile	S-7.A.E				
I/O configuration [hex]	7				
ID code [Hex]	A.E				
AS-i certificate	in preparation				
Data bits	<b>Data bit</b>	<b>D0</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>
	Function	input I1 - output O1	input I2 - output O2	input I3	input I4
Mechanical data					
Housing materials	PA				
Weight [kg]	0.166				
Displays / operating elements					
Output status indication LED	yellow				
Power LED	green				
Error LED	red				
Electrical connection					
Connection	Combicon				

## Wiring

A+: AS-i +  
 A-: AS-i -  
 I+: Sensor supply +24V  
 I-: Sensor supply 0V  
 E+: External supply +24V  
 E-: External supply 0V  
 I1...I4: Switching input sensor 1...4



Accessories	
Accessories (optional)	Combicon connector
Remarks	
Remarks	<p>If a slave with the ID code "A" (extended addressing mode possible) is used with a master of the first generation (version 2.0), the parameter P3 must be 1 and the output bit D3 = 0. The output bit D3 must not be used.</p> <p>*) All outputs (relays) must be supplied with the same voltage (e.g. 2x 240 V AC, same phase conductor or 2x 24 V DC)</p> <p>**) Reinforced insulation to EN 50178, overvoltage category II, degree of soiling 2 to 240 V AC nominal voltage</p> <p>***) Resistive</p>
Pack quantity [piece]	1