SIGNALS SELECTOR 0…10 V–

CSA 344 Eng.

- 2…6 inputs 0…10 V–
- 3 outputs 0…10 V– : minimum value
  average value
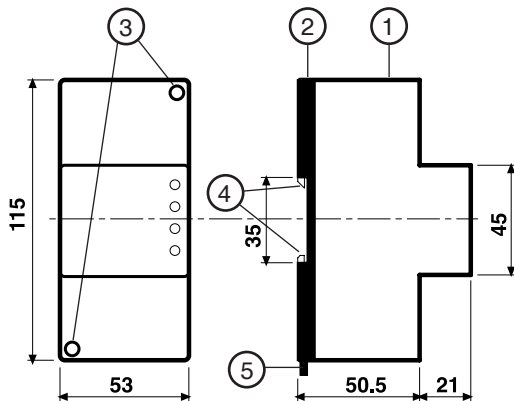 maximum value
- Power supply 24 V~, DIN rail mounting

CE

1. APPLICATION

CSA 344 is designed to select the minimum, average and maximum values from two to six 0…10 V– signals coming from active sensors (humidity, temperature, pressure, etc) or from progressive controls..

2. FUNCTIONS
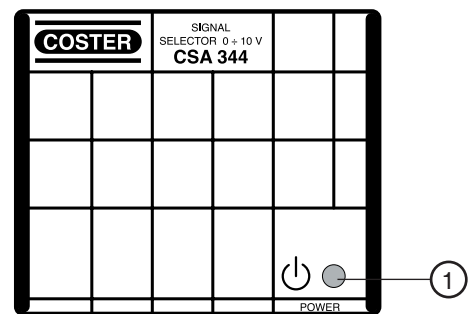
Produces simultaneously three 0…10 V– output signals (minimum, average and maximum) from two to six 0…10V– signals.

3. OVERALL DIMENSIONS

1 – Protective cover for electronic components
2 – Base with transformer, relay and terminal blocks
3 – Screws for securing base and cover
4 – DIN rail securing elements
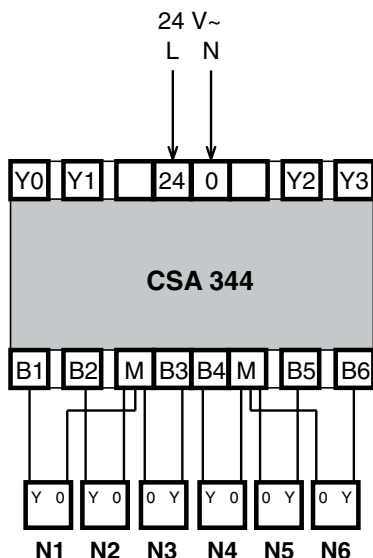5 – DIN rail release lever

4. FACIA

1 – Power LED

5. TECHNICAL DATA

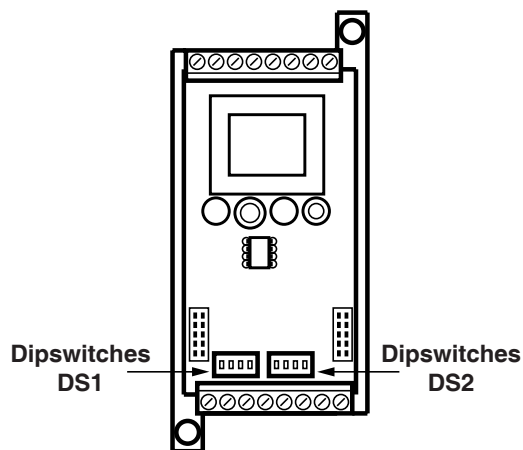|			
Power supply	24 V ~ ± 10%	Temperatura ambiente :	
Frequency	50…60 Hz	Operating	0…45 °C
Consumption	3 VA	Storage	– 25…+ 60 °C
Protection	IP40	Ambient humidity	Class F DIN 40040
Radiodisturbance	VDE0875/0871	Weight	0.31 kg
Vibration test	with 2g (DIN 40 046)	**Signals**	
Construction standards	Italian Electrotech. Committee (CEI)		
Enclosure	DIN 3E module	0…10 V– input signals :	2…6
Mounting	on DIN 35 rail	0…10 V– output signals :	Y1-Y0 : minimum value
Materials :			Y2-Y0 : average value
Base	NYLON		Y3-Y0 : maximum value
Cover	ABS		

6. INSTALLATION

CSA 344 must be installed in a dry location that respects the ambient conditions given under 5. TECHNICAL DATA. If installed in a location classified as "Hazardous" it must be installed in a cabinet for electrical equipment constructed according to the current regulations for the class of danger concerned.
The controller can be mounted on a DIN rail and housed in a standard DIN enclosure.

7. WIRING DIAGRAM

24 V~
L   N

N 1…6 – 0…10 V– input signals.
Y0 – Common output signals.
Y1 – Output signal 0…10 V– minimum value.
Y2 – Output signal 0…10 V– average value.
Y3 – Output signal 0…10 V– maximum value.

8. BASE

Dipswitches DS1   **Dipswitches DS2**

9. ELECTRICAL CONNECTIONS

Proceed as follows :
• Separate base from cover (loosen the securing screws)
• Mount the base on the DIN rail and check that it is firmly anchored by the securing elements (3.4)
• Carry out the wiring according to the diagram and in compliance with current regulations and using :
  – 1.5 mm^2 cables for power supply.
  – 1.5 mm^2 cables for incoming and outgoing signals.
• Apply power (24 V~) and check its presence across terminals 24 and 0.
• Remove power, replace cover on base/terminal block and secure it with the two screws (3.3) supplied.

You are advised not to insert more than two cables in a single terminal of the controller and, if necessary, to use an external junction box.

10. OPERATION

CSA 344 can process from two to six 0...10 V– input signals and at the same time has available three 0...10 V– output signals: minimum, average and maximum.
At least two inputs N1 (B1-M) and N2 (B2-M) must be connected.
The other inputs, if connected, must be configured by the two dispswitches DS1 and DS2 sited on the base of the controller:
N3 (B3-M) = DS1 and DS2 with switch 1 on On
N4 (B4-M) = DS1 and DS2 with switch 2 on On
N5 (B5-M) = DS1 and DS2 with switch 3 on On
N6 (B6-M) = DS1 and DS2 with switch 4 on On

We reserve the right to make changes without notice