

## Module for 10 Ports, RS-485-2-wire, 5V Output

Biassing module for RS485 (half-duplex, to set biasing voltage on data lines according to RS485 specification)



### Description

M83570 provides:

- Biasing resistor circuit to set voltage for RS485 (configurable with jumpers)
- RS485 bus termination (120  $\Omega$  / configurable with jumpers)
- 10 individually configurable ports with various configuration possibilities
- Stabilized 5 V/110 mA output

### Specifications

Electrical characteristics (Default settings)				
Parameter	Pin / Ports	Min	Typical	Max
Supply voltage (DC)	14	9 V		32 V
Quiescent current		6 mA		
Output (5 V DC) ( $\vartheta = 25^{\circ}\text{C}$ )	15	5 V 110 mA		5.3 V 130 mA
Low current limit to ground Pull-up resistor	8, 12, 16	0.97 mA	1 mA 5.1 k $\Omega$	1.05 mA
High current limit to ground	9, 10, 11	10.5 mA	10 mA	11.4 mA
Pull-down resistor	1, 5	9900 $\Omega$	10 k $\Omega$	10100 $\Omega$
Configurable ports (open)	5, 6			
RS485: TxD+/RxD+, B+	3			
RS485: TxD-/RxD-, A-	4			
RS485 Bus termination	3, 4 (Jumper 120 $\Omega$ )		120 $\Omega$	
RS485 Biasing	Jumper V+, Jumper V-		680 $\Omega$	
Ground	2, 13			

Electrical characteristics (Default settings)			
Operating temperature		-40°C	+75°C
Fuse T0.8A (time lag, slow-blow): 5 x 20 mm			

Housing dimension (width x height x depth): 22.5 x 110 x 115 mm

Mounting on DIN-rail (35 x 7.5 mm)

Terminal: wire cross section from 0.25 to 1.5 mm<sup>2</sup>

## Sensor connection diagram