TM258LF66DT4L

logic controller, Modicon M258, compact base, 66 + 4 IO, 24V DC



Main	
Range of product	Modicon M258
Product or component type	Logic controller
Product specific application	-
Discrete I/O number	66
Analogue input number	4
Discrete output number	24 output 4 fast output

Com	plementar	۷

Complementary			
Discrete input number	10 for fast input 4 for regular input 24 for input		
Discrete input logic	Sink for fast input Sink for regular input Source for input		
Discrete input voltage	24 V		
Discrete input voltage type	DC		
Analogue input type	Current: 020 mA Current: 420 mA Voltage: +/- 10 V		
Analogue input resolution	12 bits		
Voltage state 1 guaranteed	>= 15 V for fast input >= 15 V for fast output >= 15 V for regular input		
Voltage state 0 guaranteed	<= 5 V for fast input <= 5 V for fast output <= 5 V for regular input		
Discrete input current	4 MA for fast input 4 mA for regular input		
Input impedance	6 kOhm for fast input 6 kOhm for regular input		
Configurable filtering time	0 ms for fast input/regular input and fast output 1.5 ms for fast input/regular input and fast output 12 ms for fast input/regular input and fast output 4 ms for fast input/regular input and fast output		
Anti bounce filtering	2 μs4 ms configurable fast input/regular input and fast output		
Maximum cable distance between devices	<30 M for fast input <30 M for fast output <30 m for regular input		
Isolation between channels and internal logic	500 Vrms AC		
Isolation between channels	None		
Discrete output logic	Source		
Discrete output voltage	24 V DC		
Output voltage limits	19.228.8 V		
Discrete output current	4 mA for fast output		
[Us] rated supply voltage	24 V DC for embedded expert modules power 24 V DC for I/O power segment 24 V DC for main supply		
Supply voltage limits	20.428.8 V		

[In] rated current	0.04 A for embedded expert modules power 10 A for I/O power segment 0.31 A for main supply		
Peak current	100 KA (duration = <= 70 s) for main supply 25 KA (duration = <= 500 s) for I/O power segment 50 KA (duration = <= 150 s) for embedded expert modules power 1.2 kA (duration = > 70 s) for main supply		
Power consumption in W	18.11 W		
Memory description	Flash 128 MB Internal RAM 64 MB		
Realtime clock	Without any user calibration clock, clock drift < 30 s/month at 25 °C With user calibration clock, clock drift <= 6 s/month		
Data backed up	Variables of type retain and retain persistent CR2477M Renata, 1.5 years autonomy		
Integrated connection type	1 isolated serial link with female RJ45 connectorModbus with master/slave RT ASCII or character mode ASCII, physical interface: RS232/RS485, transmissic rate: 300115200 bps 1 isolated serial link with female RJ45 connectorEthernet Modbus TCP/IP with slave, physical interface: 10BASE-T/100BASE-TX 1 isolated serial link with mini B USB connector, transmission rate: 480 Mbit/s 1 isolated serial link with USB type A connector, transmission rate: 480 Mbit/s 2 free slots PCI 1 CANopen with male SUB-D 9 connectorCANopen with master		
Transmission rate	125 kbit/s for bus length of 500 m for CANopen 250 kbit/s for bus length of 250 m for CANopen 50 kbit/s for bus length of 1000 m for CANopen 500 kbit/s for bus length of 100 m for CANopen 10 kbit/s for bus length of 5000 m for CANopen 1000 kbit/s for bus length of 4 m for CANopen 20 kbit/s for bus length of 2500 m for CANopen 800 kbit/s for bus length of 25 m for CANopen		
Counting input number	8 counting input(s) at 200 kHz		
Local signalling	1 LED per channel for I/O state 1 LED for CAN0 STS 1 LED for MBS COM 1 LED green/red for APP0 1 LED green/red for APP1 1 LED green/red for Eth NS (Ethernet network status) 1 LED green/red for Eth ST (Ethernet status) 1 LED green/red for RUN/MS (module status) 1 LED green/red for USB host 1 LED green/yellow for Eth LA (Ethernet activity) 1 LED red for BATT (battery status)		
Marking	CE		
Mounting support	Symmetrical DIN rail		
Width	262.5 mm		
Height	99 mm		
Depth	85 mm		
Net weight	0.8 kg		

Environment

Standards	UL 508 CSA C22.2 No 142	
	CSA C22.2 No 213	
	IEC 61131-2	
Product certifications	CSA[RETURN]cULus[RETURN]GOST-R[RETURN]C-Tick	
Ambient air temperature for operation	055 °C without derating (horizontal installation)	
	060 °C with derating factor (horizontal installation)	
	050 °C (vertical installation)	
Ambient air temperature for storage	-2570 °C	
Relative humidity	595 % without condensation	
IP degree of protection	IP20 conforming to IEC 61131-2	
Pollution degree	2 conforming to IEC 60664	
Operating altitude	02000 m	
Storage altitude	03000 m	
Vibration resistance	1 gn at 8.4150 Hz on DIN rail	
	3.5 mm at 58.4 Hz on DIN rail	
Shock resistance	15 gn for 11 ms	

Resistance to electrostatic discharge	4 KV on contact conforming to IEC 61000-4-2 8 kV in air conforming to IEC 61000-4-2		
Resistance to electromagnetic fields	1 V/M 22.7 GHz conforming to IEC 61000-4-3 10 V/m 802000 MHz conforming to IEC 61000-4-3		
Resistance to fast transients	1 KV (I/O) conforming to IEC 61000-4-4 1 KV (shielded cable) conforming to IEC 61000-4-4 2 kV (power lines) conforming to IEC 61000-4-4		
Surge withstand	0.5 KV differential mode conforming to IEC 61000-4-5 1 kV common mode conforming to IEC 61000-4-5		
Disturbance radiated/conducted	CISPR 11	CISPR 11	

Packing Units

PCE
1
13.600 cm
15.500 cm
37.500 cm
1.019 kg
S04
6
30.000 cm
40.000 cm
60.000 cm
7.050 kg

Offer Sustainability

PVC free	Yes	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
RoHS exemption information	€Yes	
China RoHS Regulation	China RoHS Declaration	
Mercury free	Yes	
Toxic heavy metal free	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
REACh Regulation	REACh Declaration	

Contractual warranty

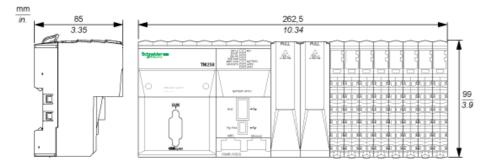
Contractual warranty				
Warranty	18 months			

Product data sheet Dimensions Drawings

TM258LF66DT4L

Controller

Dimensions



TM258LF66DT4L

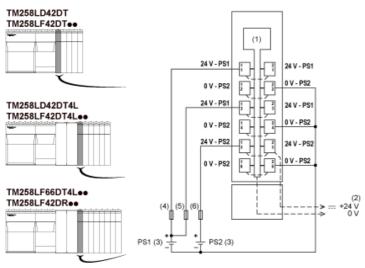
TM5 System Wiring Recommendations

Wire Sizes to Use with Removable Spring Terminal Blocks

	mm in.	0.35		1		
		mm²	0,082,5	0,252,5	0,251,5	2 x 0,252 x 0,75
Γ		AWG	2814	24 14	2416	2 x 242 x 18

External Power Supplies

Wiring Diagram of the Controller Power Distribution Module



- Internal electronics
- (2) 24 Vdc I/O power segment integrated into the bus bases
- PS1/PS2: External isolated SELV power supply 24 Vdc (3)
- (4) External fuse, Type T slow-blow, 3 A 250 V
- (5)
- External fuse, Type T slow-blow, 2 A 250 V
 External fuse, Type T slow-blow, 10 A max., 250 V