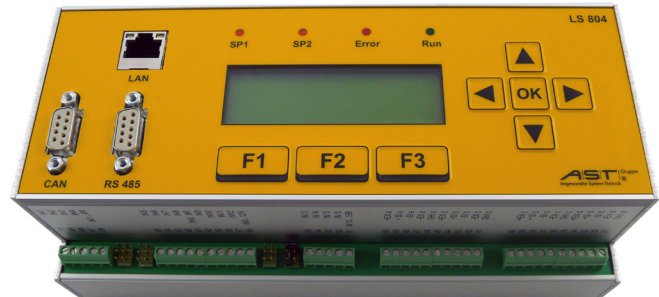


LS 804.01 / LS 804.02

4 - channel load switch/ Performance Level Plc

Applications

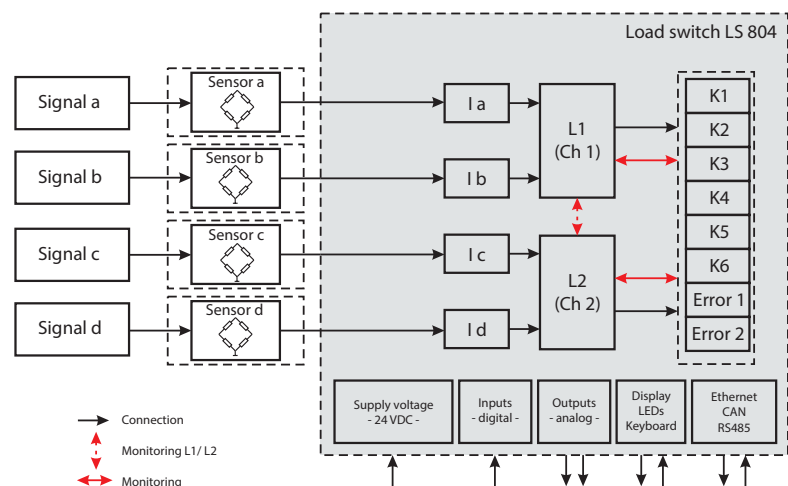
The 4-channel load switches is used in machines and systems for monitoring and comparing the output signal of strain gauge- or 4/20mA sensors and signaling the exceeding or falling adjustable signal limits.



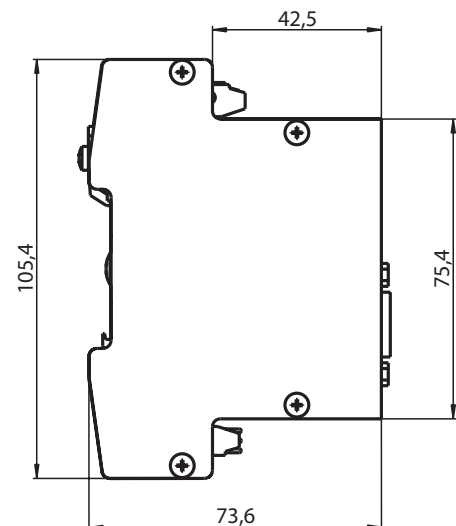
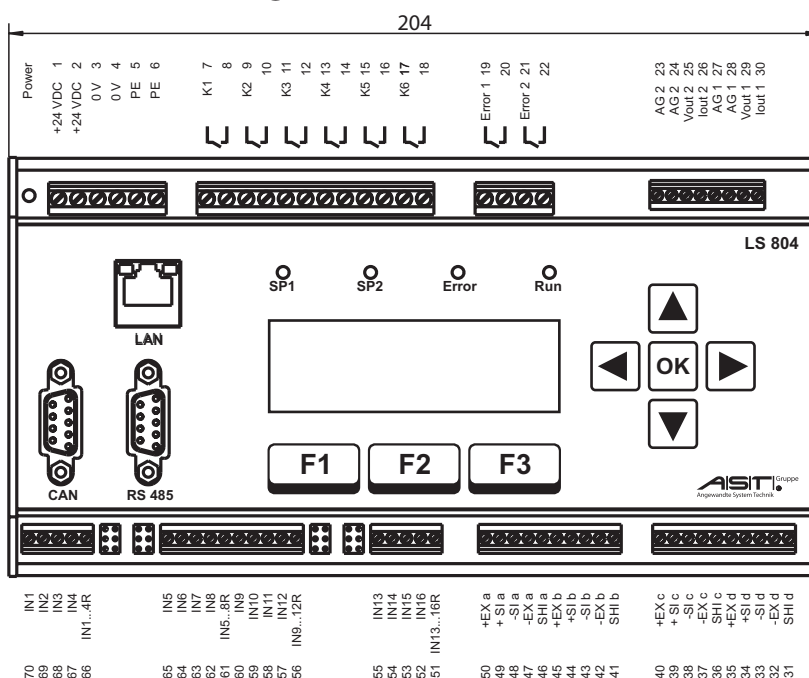
Features

- Protection: EN ISO 13849-1: available for performance level PLC
- Sensor inputs:
4x Strain gauge sensors or
4x 4...20mA-sensors (also 2-wire)
- Useful live according to FEM 9.755
- 16 Switch inputs:
- 2 Analog outputs
- 8 Switch outputs
- 3 Interfaces

Principle Overview



Dimensions/ Wiring Code



Specifications

Sensor Inputs		LS 804.01 for Strain Gauge-Sensors	LS 804.02 for 4 ... 20mA-Sensors
Input signal range (+Si/-Si)		-5.0mV/V ... +5.0mV/V	4mA ... 20mA
Impedance range		Bridge resistance 350 ... 1000Ω	max. load: 25mA/ senso
Excitation voltage (+Ex/-Ex)	VDC	5.0 respectively 3.3	24 ± 10%
Conversion rate ADU	Sps	480	480
Supply Voltage		LED display	
Operating voltage	VDC	18 ... 36	
Maximum power consumption	W	max. 15	
Terminal block, wire size (maximum)	mm ²	1.5	
Switching Inputs IN 1 ... 16		LED display	
Opto coupler groups 4 x 4		"direct" or "+24VDC" or "0V"	
Return lines per jumper "IN__R"		1.0	
Terminal block, wire size (maximum)	mm ²		
Switching Outputs K1 ... 6 and Error 1 ... 2		LED display	
Guided contacts		DC: 24V/2A DIN EN 60947-4-1 and 60947-5-1	
Switching voltage/ contact current		6mW ... 50W(VA)	
Switching power		80	
Datarate	1/s	100.000	
Electrical lifetime	cycles	> 10 ⁶	
Mechanical lifetime	cycles	1.5	
Terminal block, wire size (maximum)	mm ²		
Analog Outputs			
2x current output / max. load resistance	mA/ Ω	4mA ... 20mA/ 350Ω	
OR			
2x voltage output signal / minimum load	V/ kΩ	0V ... 10V/ 1kΩ	
Datarate	1/s	20	
Terminal block, wire size (maximum)	mm ²	1.0	
Digital Interfaces			
Ethernet		RJ45	
CAN		9-pin SUB-D	
RS-485		9-pin SUB-D	
Load spectrum recorder - LSR			
Input values	h	D - theoretical use	
Time base	h	S - Start value consumed use	
Output values		1/3600 indicator in the display	
Display / Keyboard			
Display		4 lines LED display, 16 characters per line	
LED		7 LED status indicators	
Keyboard		Keypad: cross cursor, three function keys F1 ... F3	
Environmental Conditions			
Operating temperature range	°C	- 20 ... +60, rel. humidity < 95% at 40°C	
Storage temperature range	°C	- 25 ... +70, rel. humidity < 95% at 40°C	
EMI resistance		DIN EN 61000-6-2	
EMI transmission		DIN EN 55011-B	
Vibration resistance		DIN EN 60068-2-6	
Shock resistance		DIN EN 60068-2-27/-29	
Construction		Metal Housing for DIN-Rail	
Weight	kg	1	
Dimensions (W x H x D)	mm	102 x 105 x 205	
Mounting		on DIN-rail TS35	
Environmental protection EN 60529		IP 40	

Order Example

Type code	Description
LS 804.01	Strain gauge switching amplifier 4-channel
LS 804.02	Current switching amplifier 4-channel