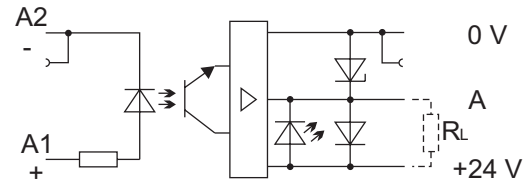
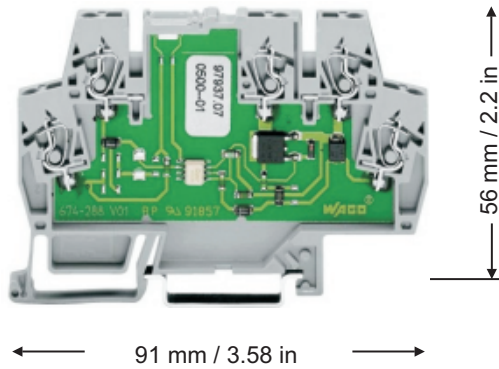


# Electronic Terminal Block with Optocoupler

1/2

Optocoupler for DIN 35 rail

Data sheet



Description	Item-No.	Pack.-unit pcs																																																							
Input DC 24 V, Output DC 24 V / 500 mA negative switching	859-708	1																																																							
<ul style="list-style-type: none"> <li>• Optocoupler for medium switching powers.</li> <li>• Input with reverse voltage protection.</li> <li>• Output with recovery diode and operation indicator LED red.</li> <li>• Mounting on DIN 35 rail.</li> </ul>	<b>Technical Data</b>																																																								
	<table border="1"> <tbody> <tr> <td>Input nominal voltage <math>U_N</math></td> <td>DC 24 V</td> </tr> <tr> <td>Input voltage range</td> <td></td> </tr> <tr> <td>    0-level (L)</td> <td>DC 0-5 V</td> </tr> <tr> <td>    1-level (H)</td> <td>DC 19-30 V</td> </tr> <tr> <td>Input current range</td> <td>5.7-10.2 mA</td> </tr> <tr> <td>Current at nominal voltage</td> <td>7.7 mA</td> </tr> <tr> <td>Input circuitry</td> <td>Surge voltage protection</td> </tr> <tr> <td>Output nominal voltage</td> <td>DC 24 V</td> </tr> <tr> <td>Output voltage range</td> <td>DC 20-30 V</td> </tr> <tr> <td>Max. continuous current</td> <td>500 mA</td> </tr> <tr> <td>Output circuitry</td> <td>Recovery diode, Operation indication LED (red)</td> </tr> <tr> <td>Reverse voltage transistor</td> <td>DC 80 V</td> </tr> <tr> <td>Switch on / Switch off time</td> <td>&lt;10 <math>\mu</math>s / &lt;10 <math>\mu</math>s</td> </tr> <tr> <td>Max. frequency</td> <td>10 kHz</td> </tr> <tr> <td>Max. frequency at <math>R_L=470 \Omega</math></td> <td>25 kHz</td> </tr> <tr> <td>Leakage current</td> <td></td> </tr> <tr> <td>at nominal voltage</td> <td>&lt;10 <math>\mu</math>A</td> </tr> <tr> <td>Collector-/emitter-voltage drop <math>U_{CE sat}</math></td> <td>&lt;1.2 V</td> </tr> <tr> <td>Max. quiescent output current (without load)</td> <td>11 mA</td> </tr> <tr> <td>Test voltage</td> <td></td> </tr> <tr> <td>input / output</td> <td>2.5 kV<sub>eff</sub></td> </tr> <tr> <td>Operating at normal rating</td> <td>100 % continuous duty</td> </tr> <tr> <td>Ambient operating temperature</td> <td>-25 °C...+55 °C</td> </tr> <tr> <td>Storage temperature</td> <td>-40 °C...+70 °C</td> </tr> <tr> <td>Module width</td> <td>6 mm / 0.236 in</td> </tr> <tr> <td>Wire connection</td> <td>CAGE CLAMP®</td> </tr> <tr> <td></td> <td>0.08-2.5 mm<sup>2</sup> / AWG 28-14</td> </tr> <tr> <td>Stripped length</td> <td>5-6 mm / 0.22 in</td> </tr> </tbody> </table>		Input nominal voltage $U_N$	DC 24 V	Input voltage range		0-level (L)	DC 0-5 V	1-level (H)	DC 19-30 V	Input current range	5.7-10.2 mA	Current at nominal voltage	7.7 mA	Input circuitry	Surge voltage protection	Output nominal voltage	DC 24 V	Output voltage range	DC 20-30 V	Max. continuous current	500 mA	Output circuitry	Recovery diode, Operation indication LED (red)	Reverse voltage transistor	DC 80 V	Switch on / Switch off time	<10 $\mu$ s / <10 $\mu$ s	Max. frequency	10 kHz	Max. frequency at $R_L=470 \Omega$	25 kHz	Leakage current		at nominal voltage	<10 $\mu$ A	Collector-/emitter-voltage drop $U_{CE sat}$	<1.2 V	Max. quiescent output current (without load)	11 mA	Test voltage		input / output	2.5 kV <sub>eff</sub>	Operating at normal rating	100 % continuous duty	Ambient operating temperature	-25 °C...+55 °C	Storage temperature	-40 °C...+70 °C	Module width	6 mm / 0.236 in	Wire connection	CAGE CLAMP®		0.08-2.5 mm <sup>2</sup> / AWG 28-14	Stripped length
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# Electronic Terminal Block with Optocoupler

2/2

Optocoupler for DIN 35 rail

**Data sheet**

	Standards / prescriptions	IEC60664, VDE0110 correspond. parts		
		Pollution degree 2		
		Overvoltage category III		
		DIN EN 50178, VDE 0160		
	Approvals	<b>cUL<sub>US</sub></b>		
		UL508 / CSA22.2		
		E175199,		
		at max. operating temperature +40 °C		
		<b>cUL<sub>US</sub></b>		
		UL1604/ CSA22.2 No.213		
		E198726		
		<b>ATEX</b>		
		EN50021 / II 3 GD EEx nA II T4		
		DEMKO 02 ATEX 132280 U		
		<b>CB scheme</b>		
		IEC 60947-1 / IEC 60947-5-1		
		DEMKO DK-7575		
		DC13	0.5 A	DC 24 V
	Accessories			
	End and intermediate plate	859-525		
Comb type jumper bar, 2-way	859-402			
	3-way	859-403		
	4-way	859-404		
	5-way	859-405		
	10-way	859-410		
Test pin 1 mm Ø	859-500			