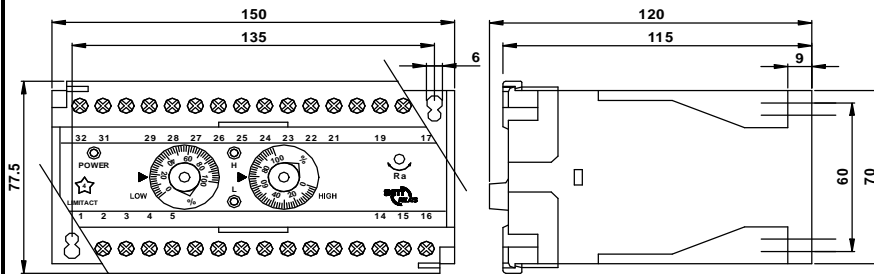


Datasheet

Product	LO-800 series Measuring relay "Limitact"	Country of origin: The Netherlands
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Dimensions



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Description

The "Limitact" measuring relay is applied for guarding analogue measuring quantities and can be furnished with max. 2 setpoints, which may be positioned independently of each other, with a minimum distance of 3% of the scalelength.

Both setpoints have two change over contacts and are performed according the fail safe principle. Relay de-energize delay and switch hysteresis are fixed adjustments which may be chosen within the specification.

An analogue output is available as a sustained dc current of 1 mA, which is linear with the input signal. ¹⁾

The Limitact is equipped with lockable knobs for both adjustments, and can be connected to AC as well as DC auxiliary supplies.

Input data

Adjustment

Type	Quantity	Min. Range	Max. range	High level ²⁾	0...100%
LO 800	DC voltage	0...5 mV	0...1000 V	Low level ²⁾	0...100%
LO 802/803	Temp.Pt-100	0...40 °C	0...550 °C		
LO 806	AC current	0...1 A	0...5 A		
LO 807	AC voltage	0...100 V	0...380 V		
LO 820	Frequency	48...52 Hz	380...420 Hz		

Auxiliary supply data

Accuracy

Type	U _{min} (V)	U _{max} (V)	f _{nom} (Hz)	Adjustment	< 2,5%	
L	16.5	90	0...60	Repeat	< 0,2%	
H	65	270	0...60			
Max. powerinterruption				10 ms	Hysteresis	0.5%
Nom. powerconsumption				< 3 VA	Delay time	1 s

More detailed information about other measuring ranges, hysteresis or delay time on request

¹⁾ The output is not galvanic isolated from the input.

²⁾ The "High" adjustment value must be greater than the "Low" adjustment value.

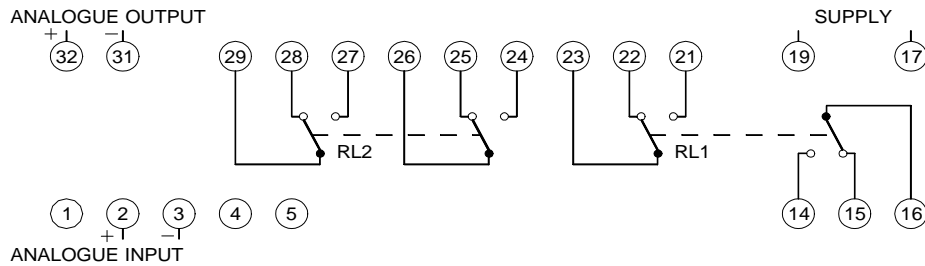
Contact data

Max. Make Current	14 A	Material	AgCdO
Max. Cont. Current	8 A		
Max. Switching Voltage		Insulation between	1 kV; 50 Hz

DC	300 V	open contacts pole to pole	1 min
AC	250 V		2.5 kV; 50 Hz; 1 min
Min. Switching Voltage	12 V, 100 mA		

Connection diagram

type LO 800 (2 setpoints)



Contact configuration

Type	2 Setpoints			1 Setpoint	
	Low level	High level	Code	Level	Code
LO 8./	min	max	11		
LO 8./	min	min	20	min	10
LO 8./	max	max	02	max	01

General Data

Dielectric strength		
Input-output	IEC 77	3.5 kV, 50 Hz, 1 min
Input-Supply	IEC 77	4 kV, 50 Hz, 1 min
Cont-Cont	IEC 255-5/	1 kV
Pole-Pole	IEC 77	2.5 kV
Pulse Withstanding	IEC 255-5	4 kV (1.2/50 μ s)
Vibration	IEC 77 IEC 571-1 IEC 68-2-6	1 g at 10 Hz max freq 80 Hz class VII
Shock	IEC 77 IEC 68-2-27	5 g at 50 Hz
Weight		< 500 g
Temperature	T _{amb,max} T _{amb,min}	+55 °C -10 °C
Humidity		90%, temporary permitted condensation
Protection		IP 20/ IP 40 (contacts/ housing)
Materials		Polycarbonat/ GV/ V-0

Ordering information

Type / Contact configuration / Input / Option / Aux.supply

Example: LO802 / 11 / 0...40 °C / - / H