

Overload protection for hall- / gantry cranes ECPS 4



Description

Overload protection in hoisting devices are made to protect human and machinery. It raises durability and guaranties a frictionless and reliable operation in daily industrial applications.

tecsis systems guarantee a efficient role even in heavy duty applications.

tecsis electronic ECPS4 is used for hall- / gantry cranes to measure and monitor loads and protect against overload. The actual load is compared to four limit values, and by achieving the limit value, the relay of the crane controller could be switch. In combination with this sensor technology, there are safety relays in use.

tecsis electronic ECPS4 use a firmware, which can be aligned to the actual application. The aligning can easily be set up with a pc, when all components are mounted in the crane. The water proof (IP67) stainless steel housing protects the electronic also against electro magnetic interferences.

Features

- input signal 4 x 4 - 20mA
- 2 analogue output signals 4 - 20mA
- each input up to 4 freely programmable switching points
- stainless steal housing
- easy mounting
- fast setup
- pc supported menu-driven configuration
- interface RS 232
- safety relays
- display module in clear text
- protection class IP 67
- temperature range -20+70°C

Applications

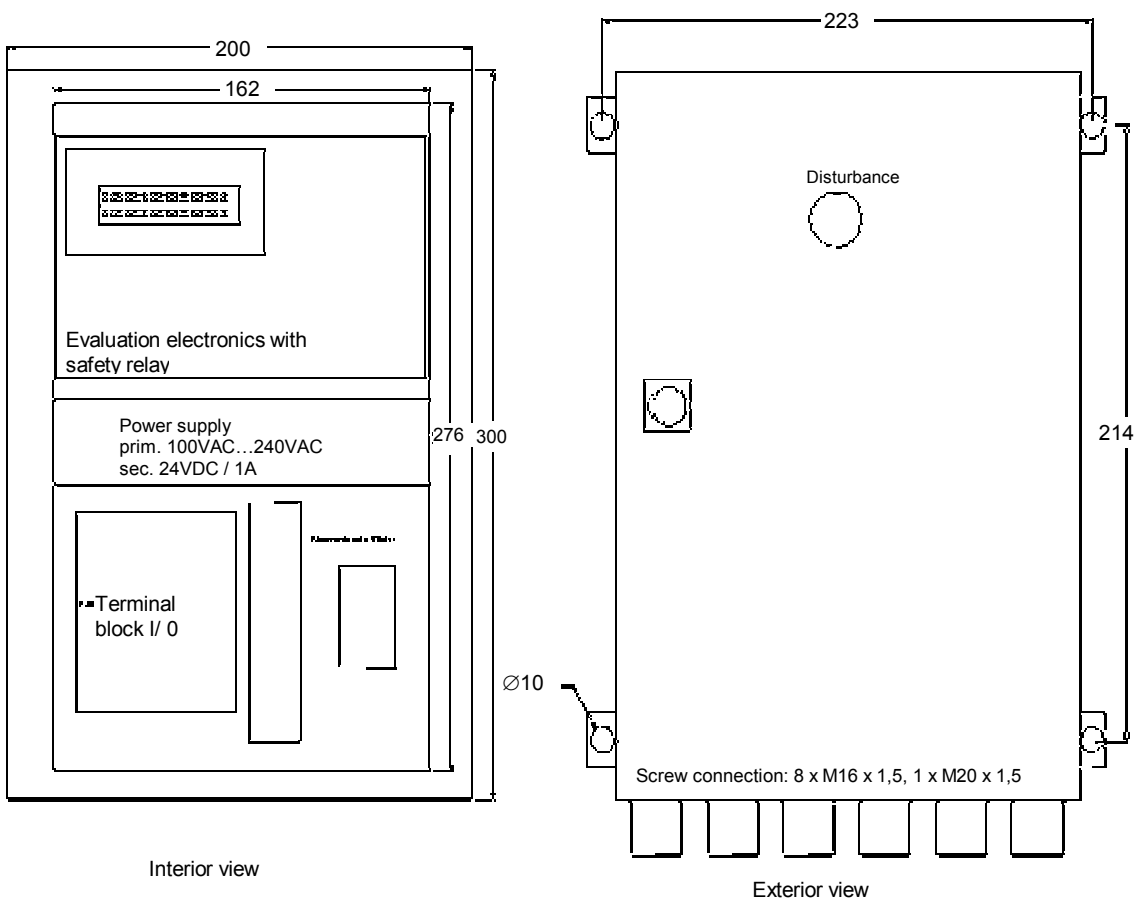
overload protection for hall- / gantry cranes
steel production
container cranes
endangered tilling hoisting devices

Model: ECPS4

Technical Data

Model	ECPS4	
Power supply (extern)	100...240 VAC	0,1A
Input signal	4 x 4...20mA	
Repeat accuracy	<0.1%	
Accuracy	0.2% FS	
Output signal (combined signal)	4...20 mA	
Accuracy	0.5% FS	
4 x Digital output		
Switching points	freely programmable	
Hysteresis	freely programmable	
Max. switching voltage	250 VAC	
Max. switching power AC	1500VA	
1 x switching output (failure)		
Electro magnetic emission	according to IEC 61326	
Electric protection	wrap-, overvoltage- and short-circuit proof	
Usable temperature range	-20 ... +70 °C (except LCD)	
Storage temperature	-25 ... +80 °C	
Start up drift		
10% F _{nom}	< 0,05%	
100% F _{nom}	< 0,05%	

Mounting



Electric connection

Supply

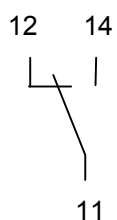
Terminal strip – X0

clamp	
L1 (grey)	100...240VAC
N (blue)	
PE(green/yellow)	

Input- output signal

Terminal strip – X1

Clamp	Signal	Contact/signal
1	Slack rope	11
2		12
3		14
4	Level 1	11
5		12
6		14
7	Level 2	11
8		12
9		14
10	Over load	11
11		12
12		14
13	Failure	11
14		12
15		14
16	Axis 1	+24V
17		Sig. In
18		0V
19	Axis 2	+24V
20		Sig. In
21		0V
22	Axis 3	+24V
23		Sig. In
24		0V
25	Axis 4	+24V
26		Sig. In
27		0V
28	N.C.	
29	Output 1	S+
30	4..20mA	0V
31	N.C.	
32	Output 2	S+
33	4..20mA	0V



Subject of technical changes