



Error code PSENcode/PSENslock

PSEN sensor technology



pilz

1**Note**

This document contains the error code description of the PSENcode and PSENslock ranges. The operating manuals of these devices are currently being revised. In future, they will include the descriptions of the error codes.

2 Error code

The "Safety Gate" and "Input" LEDs send flash signals; an error code can be established from the number and sequence. The "Power/Fault" LED illuminates red.

Each error code is indicated by three short flashes of the "Input" or "Safety Gate" LED. After a longer pause, the LED will then flash at one second intervals. The number of LED flashes corresponds to a digit in the error code. The error code can consist of up to 3 digits. The digits are separated by a longer period without flashing. The entire sequence is constantly repeated.

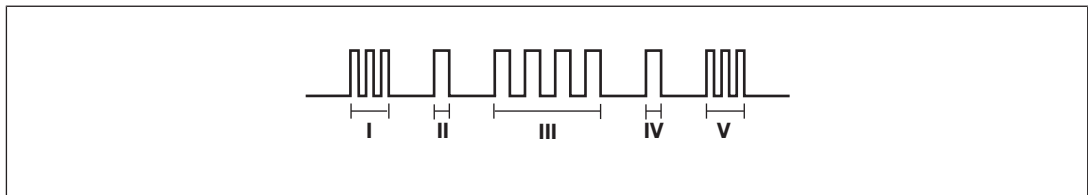
Number of flashes	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Decimal error code	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 0

LED	Error	Remedy
LEDs unlit.	Supply voltage is missing, too low, wrongly connected	Connect supply voltage: A1 - +24 VDC and A2 – 0 VDC
"Input" LED flashes yellow.	Partial operation in the input circuit	Open both channels of the input circuit.
"Power/Fault" LED illuminates red.	Error message	Read error codes for fault diagnostics
"Safety Gate" or "Input" LEDs flash a code and "Power/Fault" LED illuminates red.	For error codes see table below	See table below

Example:

Error code 1,4,1:

Flash frequency of the "Safety Gate" or "Input" LED



Meaning of flash frequency:

	Flash frequency	Meaning
I	3 times, short	Code for error message
II	Once, for one second each	Code for 1st digit
III	4 times, for one second each	Code for 2nd digit
IV	Once, for one second each	Code for 3rd digit
V	3 times, short	Code for error message repeated

Table of error codes

Error code Decimal	Number of flashes	Description	Remedy
1.4.1	3x short – 1x long – 4x long – 1x long – 3x short	At least one of the two safety out- puts 12 and 22 have voltage ap- plied during system run-up	Check the wiring of safety outputs 12 and 22, rectify the wiring error
1.12	3x short – 1x long – 12x long – 3x short	During operation, short circuit between safety output 12 and 0 VDC	Rectify wiring error at safety out- put 12
1.13	3x short – 1x long – 12x long – 3x short	During operation, short circuit between safety output 22 and 0 VDC	Rectify wiring error at safety out- put 22
14	3x short – 14x long – 3x short	During operation, short circuit between safety output 12 and 24 VDC	Rectify wiring error at safety out- put 12
15	3x short – 15x long – 3x short	During operation, short circuit between safety output 22 and 24 VDC	Rectify wiring error at safety out- put 22
4.10.7	3x short– 4x long, 10x long, 7x long– 3x short	2 actuators are within the sensor's response range.	Remove one of the actuators from the response range; comply with the actuator's max. approach speed.

Other flashing codes signal an internal error. Remedy: Change device.