

# Declaration of Reliability

We manufacturer

**CARLO GAVAZZI INDUSTRI A/S,**  
Over Hadstenevej 40, DK-8370 Hadsten, Denmark. Tel. +45 89606100

declare that the MTTF value of the product(s)

**CA12KAN08BPM1IO**

(followed by suffixes)

is(are) calculated according to:

EN ISO 13849-1:2008

Safety of machinery. Safety-related parts of control systems.  
General principles for design Part count method (Annex D.1)  
MTTFd data of electrical components (typical and worst case)

SN 29500

at operative temperature of 40°C,

## MTTF Calculation

	<i>MTTF</i> [years]	<i>MTTF<sub>d</sub></i> [years]	<i>MTTF<sub>d</sub></i> * worst case [years]
Calculation Formula	$\frac{1}{\sum_1^n \frac{1}{MTTF_n}}$	$MTTF \times 2$	$\frac{MTTF}{10} \times 2$
Result	<b>805,3</b>	<b>1610,6</b>	<b>161,1</b>

\*with safety factor 10

### Manufacturer

Hadsten, October 10, 2023

Place/Date

Signature



Name :

René Østergaard  
(R&D Manager)

Notes:

This Manufacturer's Declaration of Reliability is not to be intended as a product guarantee.

Manufacturer's point of contact: UAB Carlo Gavazzi Industri Kaunas, Raudondvario Pl.101 Kaunas, LT-47184 Lithuania



MS CERT  
ISO 9001 / ISO 14001

[www.ms certification.net](http://www.ms certification.net)