

# 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)

**CA12EAN08BPA2IO**

(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

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



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ISO 9001 / ISO 14001

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