



Product Service

# CERTIFICATE

No. Z10 16 05 75157 009

**Holder of Certificate:** Pizzato Elettrica s.r.l.

Via Torino 1  
36063 Marostica (VI)  
ITALY

**Factory(ies):** 75157

**Certification Mark:**



**Product:** Safety components  
Programmable Safety Controller

**Model(s):** Gemnis CS M-Series

**Parameters:**  
Ambient Temperature: 0°C ... +55°C  
Response time: < 30 ms  
( < 40 ms for relay output versions)  
Operating voltage: 24 Vdc (-15% ... +15%)

The report and the user documentation in the current valid revision are mandatory part of this certificate. The product complies with the following safety requirements only if the specifications documented in the currently valid revision of this report are met. The certified components are listed in report PM88729C in the current valid revision.

**Tested according to:**  
EN ISO 13849-1:2015 (Cat.4, PL e)  
EN 61508-1:2010 (SIL 3)  
EN 61508-2:2010 (SIL 3)  
EN 61508-3:2010 (SIL 3)  
EN 61508-4:2010 (SIL 3)  
EN 62061:2005/A1:2013 (SILCL 3)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** PM88729C

**Valid until:** 2021-06-09

**Date,** 2016-06-10

( Guido Neumann )

Page 1 of 1





List for tracking the version releases of the safety related automation systems:

# Programmable Safety Controller Gemnis

Manufacturer:

Pizzato elettrica

Via Torino 1

36063 Marostica (VI)

Italy

Report No.: **PM88729C**

Revision: **1.1**

Date: **20.06.2016**

Test body:

TÜV SÜD RAIL GmbH

Rail Automation

Barthstraße 16

D-80339 Munich

Certification body:

TÜV SÜD Product Service GmbH

Ridlerstraße 65

D-80339 Munich



**Content:**

**tabel of content**

---

<b>1</b>	<b>Nomenclature of the Programmable Safety Controller Gemnis .....</b>	<b>3</b>
1.1	Boards .....	5
1.2	Table for coordinating Gemnis modules.....	6
<b>2</b>	<b>Additional Documents .....</b>	<b>7</b>

---

**Changes to the previous version:**

**Changes:**

Revision	Device	previous version	new version
1.0	-	-	-
1.1	Manual	4	A16

# 1 Nomenclature of the Programmable Safety Controller Gemnis

CS Mabbbc0-Pddd-eeee

With

a Module programmability

F: Pre-programmed (see program code Pddd)

P: Programmable

## bbb Hardware configuration

	Input type				Outputs		Safety(OS)	Signaling(O)	Case width (mm)
	I	J	C	F	Test(T)				
201	8				8		3NO relay	4	45
202	16				4		4 PNP	4	45
203	12				4		3NO + 1NO relay	4	45
204	12				4		3NO relay	4	45
205	4	4		4	4		4 PNP	4	45
206	8				4		4 PNP	12	45
207	4		2		4		4 PNP	4	45
208	16				4		8 PNP	-	45
301	24				8		3NO relay	4	67.5
302	24				12		4 PNP	4	67.5
303	32				4		4 PNP	4	67.5
304	28				4		3NO + 1NO relay	4	67.5
305	24				4		4 PNP	12	67.5
306	20				4		3NO + 1NO relay	12	67.5
307	8	4	2	4	4		4 PNP	4	67.5
308	24				4		8 PNP	8	67.5
309	32				4		8 PNP	-	67.5
401	40				4		4 PNP	12	90
402	32				12		8 PNP	8	90
403	40				4		8 PNP	8	90

**c terminal type**

- M: connector with screw terminals
- X: connector with spring terminals

**ddd (optional – CS MFbbbc0 versions only) Program code.**

- 1: Monitoring of 2 guards in AND and 1 emergency stop with automatic start or manual monitored start (CS MF201M0-P1).
  - 2: Monitoring of 4 guards in AND, 1 bypass selector, 1 emergency stop, automatic start or manual monitored start, general enabling signal (CS MF202M0-P2).
  - 3: Monitoring of 6 guards in AND (2NC contacts), 1 emergency stop with automatic start or manual monitored start (CS MF202M0-P3).
  - 4: Monitoring of 6 guards in AND (1NC+1NO contacts), 1 emergency stop with automatic start or manual monitored start (CS MF202M0-P4).
  - 5: Monitoring of 4 guards with independent outputs, 1 bypass selector, 1 emergency stop, automatic start or manual monitored start, general enabling signal (CS MF202-P5).
  - 6: Monitoring of 2 guards, 1 bypass selector, 1 emergency stop, automatic start or manual monitored start, general enabling signal. Three instantaneous outputs and one timed output with a 4 way time selector. Selectable delay ON or delay OFF mode(CS MF202M0-P6).
  - 7: Monitoring of 4 guards in AND with door lock equipped switches, "D" principle, 1 emergency stop, monitored start. Two instantaneous outputs and two timed outputs via 4 way time selector (CS MF202M0-P7).
  - 8: Monitoring of 4 guards in AND with door lock equipped switches, "E" principle, 1 emergency stop, monitored start. Two instantaneous outputs and two timed outputs via 4 way time selector (CS MF202M0-P8).
- ddd: Pre-programmed code (up to three digits), factory validated, on customer's request.

**eeee (optional) alphanumeric code (Non Safety)**

Additional alphanumeric code added to product code for customer's non-electrical variations (e.g. color, gold plated contacts, special labeling, special packaging, etc.).

<b>1.1 Boards</b>					
Typ (Sach.Nr.) / Type (Order No.)	Beschreibung / Description	Hardware Version	Prüfbericht Test Report	Sicherheitsmerkmal <sup>1)</sup> Safety characteristic	
D459	Backplane2	7	PM88564T V1.0	SIL 3 Kat 4 / Pl e	
D460	Backplane3	10	PM88564T V1.0		
D461	Backplane4	12	PM88564T V1.0		
D479	Board34	12	PM88564T V1.0		
D466	Board32	13	PM88564T V1.0		
D463	Board35	7	PM88564T V1.0		
D517	Board36	5	PM88564T V1.0		
D462	Board128	9	PM88564T V1.0		
D465	Board129	6	PM88564T V1.0		
D464	Board130	6	PM88564T V1.0		
D467	Board133	5	PM88564T V1.0		
D492	Board160	2	PM88564T V1.0		
D512	Board161	1	PM88564T V1.0		

1.2 Table for coordinating Gemnis modules													
	B1 Backplane 2 slot	B2 Backplane 3 slot	B3 Backplane 4 slot	P32 Scheda power rele 3NO	P34 Scheda power 4 out elettroniche	P35 Scheda power rele 3NO+1NO	P36 Scheda power 8 out elettroniche	IO 128 Scheda Ingressi 8PLS + 8IN	IO 129 Scheda Ingressi 4PLS + 12IN	IO 130 Scheda Ingressi 16IN	IO 133 Scheda Ingressi 8IN + 8OUT	IO 160 Scheda Ingressi veloci	IO 161 Scheda Ingressi analogici 4- 20mA
CS MF201x0	X			X				X					
CS MP201x0	X			X				X					
CS MF202x0	X				X				X				
CS MP202x0	X				X				X				
CS MP203x0	X					X							
CS MP204x0	X			X					X				
CS MP205x0	X				X							X	
CS MP206x0	X				X						X		
CS MP207x0	X				X								X
CS MP208x0	X						X			X			
CS MP301x0		X		X				X		X			
CS MP302x0		X			X			X		X			
CS MP303x0		X			X				2 X	X			
CS MP304x0		X			X				X	X			
CS MP305x0		X			X				X	X			
CS MP306x0		X			X				X				X
CS MP307x0		X			X							X	
CS MP308x0		X					X			X			
CS MP309x0		X					X			2 X			
CS MF401x0			X		X					2 X			
CS MP401x0			X		X					2 X			
CS MP402x0			X				X			2 X			
CS MP403x0			X				X			2 X			



2 Additional Documents			
Type (Order No.)	Title	Revision	Comment
Manual CS MP307M0	ZE_FOG105A16-IE	A16	
Manual CS MP205M0	ZE_FOG106A15-IE	A16	
Manual CS MP206M0	ZE_FOG114A16-IE	A16	
Manual CS MP207M0	ZE_FOG117A16-IE	A16	
Manual CS MP208M0	ZE_FOG118A16-IE	A16	
Manual CS MP308M0	ZE_FOG119A16-IE	A16	
Manual CS MP309M0	ZE_FOG120A16-IE	A16	
Manual CS MP402M0	ZE_FOG121A16-IE	A16	
Manual CS MP403M0	ZE_FOG122A16-IE	A16	
Manual CS MF202M0-Px	ZE_FOG58A16-IE	A16	
Manual CS MF201M0-Px	ZE_FOG64A16-IE	A16	
Manual CS MP201M0	ZE_FOG78A16-IE	A16	
Manual CS MP202M0	ZE_FOG79A16-IE	A16	
Manual CS MP302M0	ZE_FOG81A16-IE	A16	
Manual CS MP203M0	ZE_FOG88A16-IE	A16	
Manual CS MP204M0	ZE_FOG89A16-IE	A16	



Manual CS MP301M0	ZE_FOG90A16-IE	A16
Manual CS MP401M0	ZE_FOG94A16-IE	A16
Manual CS MP303M0	ZE_FOG95A16-IE	A16
Manual CS MP304M0	ZE_FOG96A16-IE	A16
Manual CS MP305M0	ZE_FOG97A16-IE	A16
Manual CS MP306M0	ZE_FOG98A16-IE	A16

**Footnote**

**1) Safety characteristics:**

<b>SIL:</b> Safety Integrity Level according EN / IEC 61508
<b>Kat / PL:</b> Category and Performance Level according EN 13849-1.

	<b>Release by Test Body:</b>	<b>Release by Certification Body:</b>
Date:	20.06.2016	20.06.2016
Signature:		