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Annex 1
of the
Report to the Certificate
Z10 084596 0001 Rev.01
Drive System
GOLD LINE

Manufacturer:

ELMO Motion Control Ltd.
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Israel

Report No.: EP85169C-A1
Revision 1.5 of the annex, dated 2024-02-06

Testing Body:

TÜV SÜD Rail GmbH
Generic Safety Systems
Barthstr. 16
D-80339 München

Certification Body:

TÜV SÜD Product Service GmbH
Ridlerstraße 65
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Revision Log

Revision	Name	Date	Changes/History
1.0	K. Leupold	2013-08-13	Initial
1.1	T. Paradzik/K. Leupold	2014-09-30	Modification report: EP86131T Added chapter 2.5, 2.6, 2.7 and 2.8
1.2	K. Leupold	2016-11-04	Modification report: EP90002T New variants: Twitter, Clarinet, Oboe
1.3	A. Valente	2017-05-09	Modification report: EP90971T Changed Diagnostic test
1.4	K. Leupold	2021-11-24	New Variants: Double Twitter, Triple Twitter EP97596T
1.5	K. Leupold	2024-02-06	EP102402T New HW Revision for GCON



Safety-Certified Hardware and Software Components

The following GOLD LINE system components are covered by Certificate no. Z10 084596 0001 Rev. 01 and the report to the certificate, report no. EP85169C.

The following system components are certified 'safety-related'. This allows the components to be used to process safety critical signals and functions.

1 Software

1.1 STO Diagnostics Module

Filename	Safety-Firmware-Version
StoDiagnostics.c	1.0.11.0 1.0.12.0 1.0.14.0
StoDiagnostics.h	1.0.11.0 1.0.12.0 1.0.14.0



2 Hardware

2.1 Gold STO Hardware

Hardware	PCB - Version	PHA-Safety
CON-GCON	PCD-DELM005e	1.000, 1.001

2.2 DC Non- Isolated Products (up to 200v)

Gold BELL	
Model Name	Model Part Number
Gold Bell	G-BEL
Gold DC Bell	G-DCBEL
Gold Solo Bell	G-SOLBEL
Gold GUITAR / Gold CELLO	
Model Name	Model Part Number
Gold Guitar	G-GUT
Gold Solo Guitar	G-SOLGUT
Gold Cello	G-CEL
Gold Falcon	G-FAL
Gold Hawk	G-HAK
Gold Solo Hawk	G-SOLHAK



Gold WHISTLE	
Model Name	Model Part Number
Gold Whistle	G-WHI
Gold DC Whistle	G-DCWHI
Gold Solo Whistle	G-SOLWHI
Gold Hornet	G-HOR
Gold Solo Hornet	G-SOLHOR
Gold DC Hornet	G-DCHOR
Gold Duo	G-DUO
Gold Duo AMBA	G-DUO-AMBA
Gold Uno AMBA	G-UNO-AMBA
Model Name	Model Part Number
Gold Twitter	G-TWI
Gold Bee	G-BEE
Gold Solo Twitter	G-SOLTWI
Gold Double Twitter	
Model Name	Model Part Number
Gold Double Twitter	G-TWID
Gold Double Bee	G-BEED
Gold Solo Double Twitter	G-SOLTWID
Gold Solo Double Bee	G-SOLBEED
Gold Triple Twitter	
Model Name	Model Part Number
Gold Solo Triple Twitter	G-SOLTWIT
Gold Solo Triple Bee	G-SOLBEET



Gold Clarinet	
Model Name	Model Part Number
Gold Clarinet	G-CLA

2.3 DC Isolated Products

Gold DRUM (up to 400V)	
Model Name	Model Part Number
Gold Drum	G-DRU
Gold Eagle	G-EAG
Gold TROMBONE (up to 800V)	
Model Name	Model Part Number
Gold Trombone	G-TRO
Gold DC Trombone	G-DCTRO
Gold Solo Trombone	G-SOLTRO
Gold Panther	G-PAN
Gold Solo Panther	G-SOLPAN
Gold DC Panther	G-DCPAN
Gold DRUM HV (up to 800V)	
Model Name	Model Part Number
Gold Drum HV	G-DRU
Gold Eagle HV	G-EAG

2.4 AC Isolated Products

Gold BASSOON (230V)	
Model Name	Model Part Number
Gold Bassoon	G-BAS
Gold Tuba (up to 480V)	
Model Name	Model Part Number
Gold Tuba	G-TUB



Gold Oboe (up to 480V)	
Model Name	Model Part Number
Gold Oboe	G-OBO

Munich, 2024-02-06

TÜV SÜD Rail GmbH
Rail Automation

Technical Certifier