



Product Service

# CERTIFICATE

No. Z10 004249 0038 Rev. 00

**Holder of Certificate:** **Doosan Robotics Inc**  
79, Saneop-ro 156beon-gil, Gwonseon-gu  
Suwon-si, Gyeonggi-do 16648  
REPUBLIC OF KOREA

**Certification Mark:**



**Product:** **Robot Safety Unit**

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. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** DS93146T

**Valid until:** 2026-11-25

**Date,** 2021-11-29

( Guido Neumann )



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**Parameters:**

**Safety functions:**

STO, SBC, Emergency Stop:

**SIL3, PL e CAT4**

SS1, SS2, SOS, SLP, SLS, SLT, Protective Stop, TCP/Robot Position Limit, TCP Orientation Limit, TCP Speed Limit, TCP Force Limit, Robot Momentum Limit, Robot Power Limit, Collision Detection, Safety I/O, Reflex Stop: **SIL2, PL d CAT3**

Safety I/O input	Safety I/O output
Emergency Stop, Emergency Stop – No Loopback, Protective Stop, Protective Stop – STO, Protective Stop – SS1, Protective Stop – SS2, Protective Stop – Auto Reset & Resume, Interlock Reset, Reduced Speed Activation, 3-Pos Enable Switch, Handguiding Enable Switch, Remote Control Enable, Safety Zone Dynamic Enable, HGC End & Task Resume	Emergency Stop, Emergency Stop - excl. No Loopback Input, Safe Torque Off, Safe Operating Stop, Abnormal, Normal Speed, Reduced Speed, Auto Mode, Manual Mode, Remote Control Mode, Standalone Zone, Collaborative Zone, High Priority Zone, Tool Orientation Limit Zone, Designated Zone

**Tested according to:**

- IEC 61508-1:2010
- IEC 61508-2:2010
- IEC 61508-3:2010
- IEC 61800-5-1:2007
- IEC 61800-5-1:2007/AMD1:2016
- IEC 61800-5-2:2016
- ISO 13849-1:2015
- IEC 62061:2021
- ISO 10218-1:2011
- ISO TS 15066:2016
- IEC 61000-6-7:2014
- IEC 61326-3-1:2017

**Model(s):**

**Safety Controller for Single-powered Robot**