

trinity

SAFETY LOGIC FOR SEAMLESS HRC

First Name Last Name
Affiliation – Other Info

 www.trinityrobotics.eu



The TRINITY project has received funding from the European Union's Horizon 2020 research and innovation programme under the GA 825196

Dynamic task planning & work re-organization basics

Safety logic for seamless HRC

- ↳ Includes all the safety-certified technologies
- ↳ Ensures human safety inside the collaborative cell



Description of component's functionalities

Safety logic for seamless HRC module provides safety awareness to the operator and more specifically:

- ✓ Robot behavior information for increasing safety awareness
- ✓ information related to the actions of the robot is visualized in the form of informative messages during the robots' operations
- ✓ Safe working volumes
- ✓ Messages to operator to watch out potential dangers



Module's suitability

Suitable areas of application

- ✓ Manufacturing SMEs that want to increase safety in the production
- ✓ HRC workstations
- ✓ Different kinds of industries (e.g., Automotive, White Goods, Electronics, etc.)



Pre-requisites

Software components	Hardware components
Windows Operating system	CPU: Intel Core i7 10th Generation
License for the full version of the SafetyEye Configurator software	Disk: SSD 250 GB
	RAM: 32 GB
	GPU: NVIDIA GTX 1050



Environmental requirements



SafetyEye must be placed relatively high.

SafetyEye requires good visual coverage of the workplace which can be achieved by placing it perpendicular to the ground



SafetyEye requires efficient lightning



Module integration in production line

Resources to interact with it

This module can interact with:

- Operators
- Robots
- Machines

Benefits of integration

Module takes into consideration any safety issue

Regulates the activation of each safety method at each point of the execution depending on the current phase of the scenario

Suitable for any HRC scenario



More information about the module can be found in:
<https://trinity-trainingplatform.eu/safety-logic-for-seamless-hrc/>

The image shows two overlapping screenshots of the TRINITY website. The top screenshot displays the 'TRINITY TRAINING PLATFORM ROADMAP' with a circular flow diagram. The diagram includes the following stages: 'Identified Industrial training needs', 'Use Case Demonstrators', 'TRINITY Training Material', and 'TRINITY Modules'. The bottom screenshot shows a page titled 'Safety Logic Seamless for HRC' with a navigation menu including 'Home', 'Use Cases', 'Modules', 'Web Lectures', 'Calendar', 'TRINITY Forum', and 'Login'. The page features a TRINITY logo, an LMS icon, and a blue chat bubble icon. A 'KNOWLEDGE TRANSFER' section is partially visible on the right, showing an icon of a person at a whiteboard and the text 'Access to Online Webinars and workshops by Industry Experts'.



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