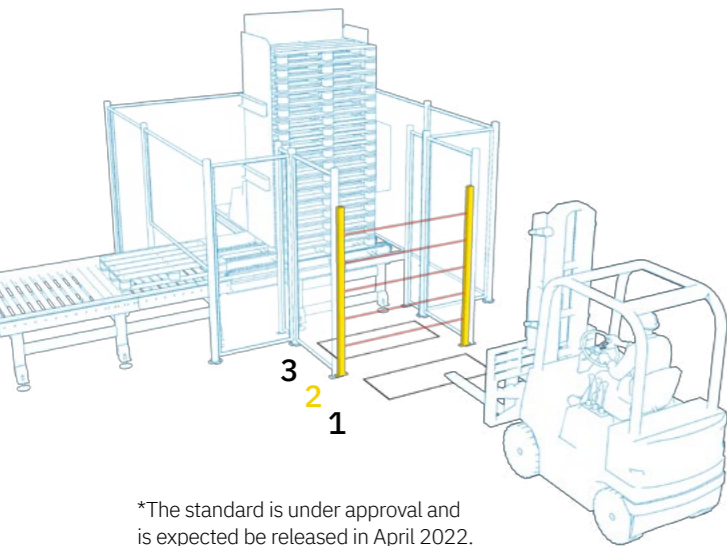




PALLET STACKER/ DESTACKER SOLUTION

with Inxpect Safety Radar Equipment

PALLET STACKER/DESTACKER



*The standard is under approval and is expected to be released in April 2022.

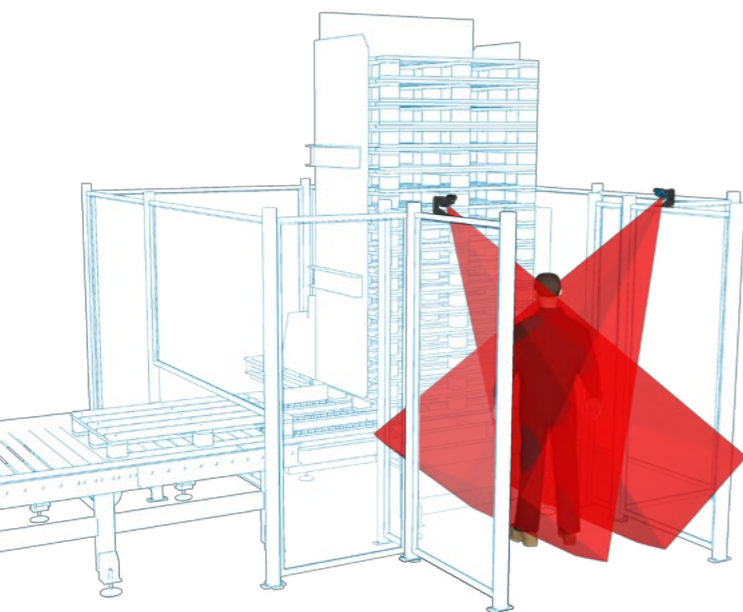
The new standard EN 415-4* mandates a specific sequence to stop and restart automatically the pallet magazine when the forklift enters in the area.

Here on the side you can see an example of the solution previous to the introduction of the radar technology: the forklift has to engage the first loop (1), then the light-curtain (2) and finally the second loop (3) to stop the machinery. The opposite sequence will restart automatically the machinery (3 → 2 → 1).

Warning: safety is not guaranteed if an operator remains in the dangerous area and the forklift leaves the area with the right sequence instead.

- ❗ Does this solution really meet the demands of the new standard?
- ❗ Is it safe enough?

What other solutions do you have?
 Inxpect guarantees you higher safety solution with a single radar (instead of 2 loops and 1 light-curtain)



BEYOND THE STATE OF THE ART

Inxpect radar technology is the best solution to detect the human presence and to prevent the machinery unintentional restart. Inxpect Smart Sensors are able to detect even micro-movement of the human body preventing the machinery to restart even when the operator stands still in the area.

Unlike the loops and the light-curtain, Inxpect Smart Sensors guarantee safety even when the forklift leaves the area in the right sequence and the second operator remains in the area, because the sensors detect him and place the machinery in a safe state.

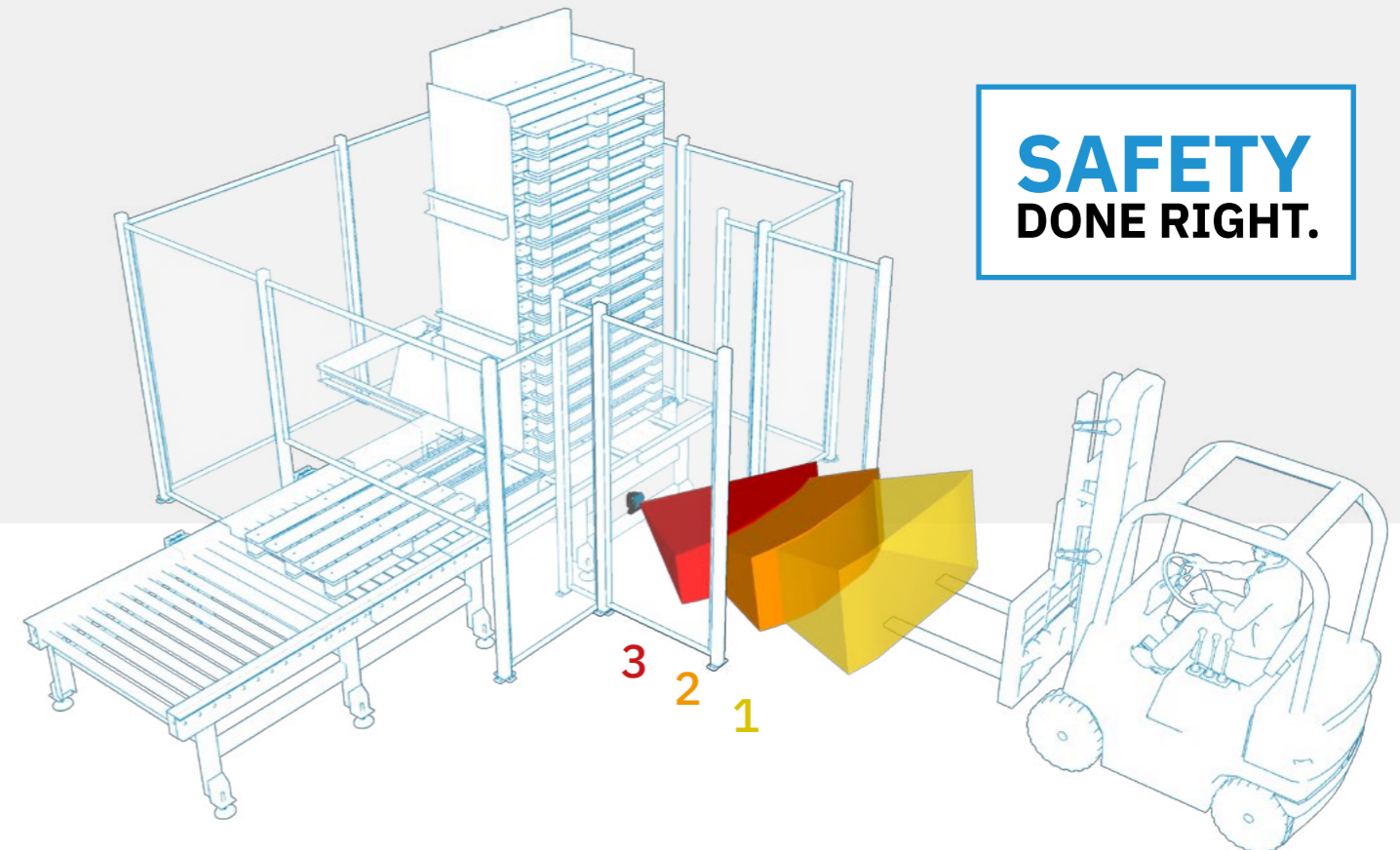


HIGHER SAFETY EASY SOLUTION

ONLY ONE SENSOR TO COMPLY WITH EN 415-4

One **Smart Sensor 200 SERIES**, configured with three detection fields and PROFI-safe communication, is able to detect a forklift or a person with the same sequence defined in the standard EN 415-4*.

Inxpect Smart Sensors work where optical sensors generate false alarms because they are robust to dust, smoke, water or debris generated by the production process. Inxpect radar technology guarantees high safety without compromising productivity.



Benefits

- No induction loop anymore necessary. Reduction of cost and maintenance.
- Safe operation of pallet magazine. If an operator is still in the area when the machinery tries to restart automatically, Inxpect Smart Sensors will recognize him and prevent machinery from restarting.
- Cost efficient: one control unit can be linked up to six smart sensors.
- Superior performance level provided (PLd instead of PLC required by the standard).

Inxpect safety functions:



ACCESS PROTECTION

If the operator moves closer to the dangerous area, the system places the machinery in a safe state.



RESTART PREVENTION

The system prevents machinery from restarting while operators are in the dangerous area.

Pallet stacker/destacker solution

Bill of material

One Sensor Solution					
<i>Product</i>	Smart Sensor 200 SERIES (SBV-01)	Control Unit 200 SERIES (ISC-B01)	Control unit to sensor cable	Sensor to sensor cable	Bus terminator
<i>Part No.</i>	90302010	90301011	08000111	08000121	07000003
<i>Quantity</i>	1	1	1	0	1
Three Sensor Solution					
<i>Product</i>	Smart Sensor 200 SERIES (SBV-01)	Control Unit 200 SERIES (ISC-B01)	Control unit to sensor cable	Sensor to sensor cable	Bus terminator
<i>Part No.</i>	90302010	90301011	08000111	08000121	07000003
<i>Quantity</i>	3	1	1	2	1

Standards and regulations

- EN 415-4: 2019
- EN 415-10: 2014
- EN ISO 13849-1: 2015
- EN ISO 13850:
- EN 61496-1: 2012
- EN ISO 12100: 2010