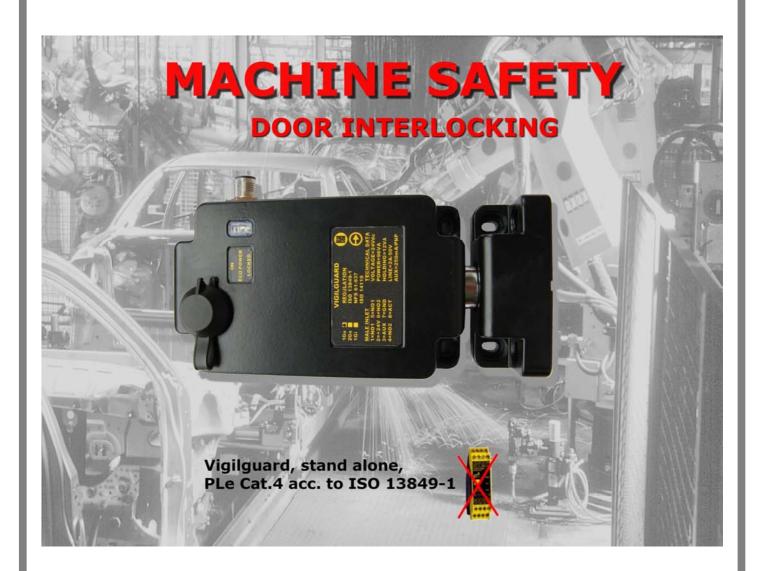




- Stand alone Vigilguard
- Non Stand alone Anaguard



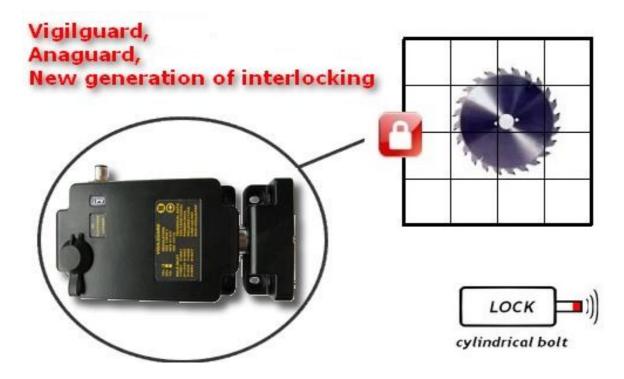


- Stand alone Vigilguard
- Non Stand alone Anaguard

This range of safety non-contact interlocking device with coded bolt has been developed in collaboration with some machine builders and end users, in food, machine tool, paletiser, in order to offer them a reliable solution.

Monitoring a mobile guard is recommended when personnel require intermittent to frequent access to a hazardous area. If the guard is moved or opened, the interlocking switch prevents cycle initiation or sends a stop signal to the machine control.

By locking the guard closed, our range will prevent access to the machine till it has come to a safe stop, and differentiates from the main competitors by the smooth design, allowing a much longer life expectancy. There is no ruining and a slight misalignment is authorized.



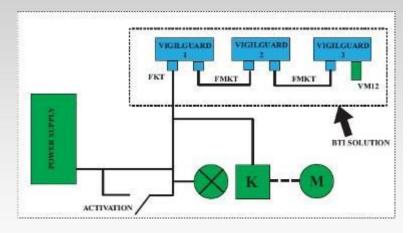


- Stand alone Vigilguard
- Non Stand alone Anaguard

Moreover, some interlocking switches on the market do not integrate the safety position of the bolt/key, so another safety switch is required to detect the position of the door and prevent a restarting of the machine even if the interlocking has extracted the bolt/lock.

This range was especially designed to overpass the main mechanical switches limits, mainly in environments where you find:

- heavy contamination,
- high vibration,
- poor actuator/switch alignment.



The main innovations are:

- the position contact integrated in the bolt, so no more additional position safety switch needed,
- the washable receiving strike plate, thanks to a central hole for water release,
- the double M12 connector available, to ease the serial wiring, and facilitate the automatic serial locking,
- an energy saving mode, to avoid unnecessary consumption (96W inrush power for 0.1sec then 1,5W, whatever the number of devices connected in serial),
- and a temperature control (the power supply is off if the heat is up 70°C) and overvoltage control (the power supply is off if +10/-15%).



New coded interlocking

Vigilguard Stand alone Safety cat4 PLe acc to ISO EN 13849-1



Vigilguard

In safety reference, Vigilguard prevents the guarded machine from operating unless the guard is closed and bolt is actuated in the receiving strike plate.

In the automation reference, Vigilguard can check the bolt position (in option) to stop the machine or restart it.

Benefits

- very rugged and corrosion resistant housing (100% zamak),
- high mechanical power to allow the bolt to easily extract,
- automatic locking of serial wired devices (low power requested),
- easy daisy-chained with its double connector M12 (in option),
- its unique design simplifies the cleaning and compliance with new hygiene requirements, IP66,
- emergency manual release with its key,
- very strong holding force 2500daN / high resistance to shearing 1000daN
- 3 LEDs to show operating system status: On, Eco, Locked door
- no minimum bending radius contrary to mechanical switches,
- safe operation: temperature and energization control,
- duty cycle 100%.



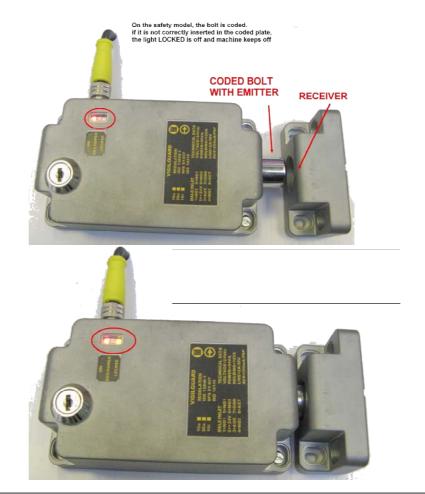
Vigilguard Stand alone Safety cat4 PLe acc to ISO EN 13849-1

VIGILGUARD SAFETY INTERLOCKING (WITH CODED BOLT & PLATE)			
Ref number	Locking mode	Connectors M12	
Vigilguard 1Gs	When un-energized	1	LOCK (cylindrical bolt
Vigilguard 2Gs		2	
Vigilguard 1Gi	When energized	1	
Vigilguard 2Gi		2	
AT-08- GVi - 01	Only the coded strike plate		

On this safety version, the bolt is coded.

If it is not correctly inserted in the coded plate, the LOCKED Led doesn't light and machine keeps off

Once the bolt is inserted in the coded plate, it is recognized and the locking is effective. The LOCKED Led lights and machine can restart.





Vigilguard Stand alone Safety cat4 PLe acc to ISO EN 13849-1

VIGILGUARD AUTOMATION LOCKING WITHOUT CODED PLATE			
Ref number	Locking mode	Bolt model	
WITHOUT BOLT POSITION STATUS			LOCK
AT-08 VI 01	\\(\(\lambda\)	Beveled bolt	bevelled bolt
AT-08 VI 03	─ When un-energized	Cylindrical bolt	LOCK
AT-08 VI 02		Beveled bolt	cylindrical bolt
AT-08 VI 04	When energized	Cylindrical bolt	
WITH BOLT POSITION STATUS			
AT-08 VI 05	\\(\(\)\(\)	Beveled bolt	LOCK bevelled bolt
AT-08 VI 07	When un-energized	Cylindrical bolt	
AT-08 VI 06	When energized	Beveled bolt	
AT-08 VI 08		Cylindrical bolt	LOCK
AT-08- GVi - 02	Only the strike plate		cylindrical bolt
Available with M12, single or double connector			

On the automation version:

- Non coded
- only bolt indication status (in-out)





• Anaguard, non stand alone, in connection with Awax



Anaguard

Benefits:

- smart size
- very strong composite plastic housing
- its unique design simplifies the cleaning, IP66
- suitable for food industry (EN 1672-2),
- screw cover to comply with new requirements
- high mechanical power to allow the bolt to easily extract,
- emergency manual release with its key
- no minimum bending radius contrary to mechanical switches.

Anaguard 2S

stand alone cat2 PLd



- Anaguard, non stand alone, in connection with Awax
- Anaguard 2S, stand alone, cat.2

References

ANAGUARD SAFETY INTERLOCKING (WITH CODED BOLT & PLATE) Non Stand-alone			
ref	Locking mode	Connectors	
Anaguard Gsm	When un-energized	1 M12	LOCK (cylindrical bolt
Anaguard Gsw		1 cable	
Anaguard Gim	When energized	1 M12	
Anaguard Giw		1 cable	
AT- 09-GAN 01	Only the coded strike plate		

ANAGUARD 2S SAFETY INTERLOCKING (WITH CODED BOLT & PLATE) Stand alone cat.2 PLd			
ref	Locking mode	Connectors	LOCK
Anaguard 2 Gsm	When un-energized	1 M12	
Anaguard 2 Gsw		1 cable	cylindrical bolt

ANAGUARD AUTOMATION LOCKING WITHOUT PLATE			
ref	Locking mode	Connectors	
AT- 09-AN 02	When un-energized	1 M12	cylindrical bolt
AT- 09-AN 01		1 cable	
AT- 09-AN 04	When energized	1 M12	
AT- 09-AN 03		1 cable	
AT- 09-GAN 02	Only the strike plate		



Power saving feature when using more than 1 interlocking switch

The interlocking safety switches are used on machines where the dangerous hazards continue after the stop of the machine was requested by the operator.

This inertia (presses, robots, wood saw...etc). represents a lethal risk sometimes for the operator, and must be avoided by using such safety devices.

Our interlocking range protects the accesses to the operators so they can not be harmed or injured by the machinery and appendices motion.

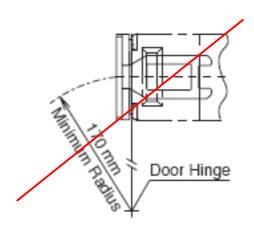
The machine will also not be authorized to restart if the bolt is not correctly inserted and actuated in the receiving striking plate.

The Anaguard and Vigilguard integrate a feature which can automatically forward the energisation one by one of all the daisy chained interlocks. They will be almost simultaneously powered (0,1sec delay between each).

This ensures most of all that the power source does not have to supply the inrush voltage of all the interlocks at the same time, but only the inrush of one switch i.e. 95W.

After the inrush, only 1,5W per switch is required.

No minimum radius necessary

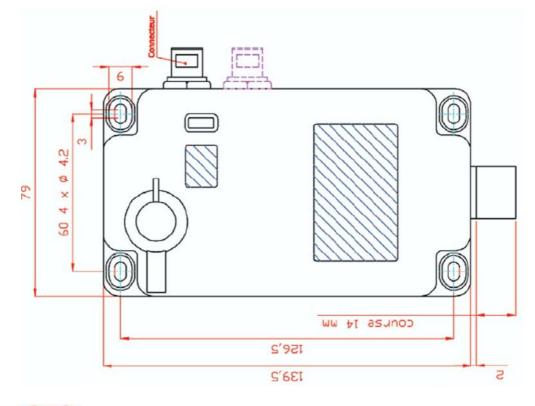


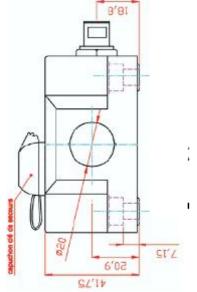




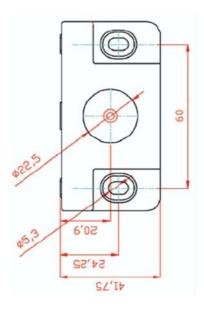
Vigilguard dimensions

Front view





Side view

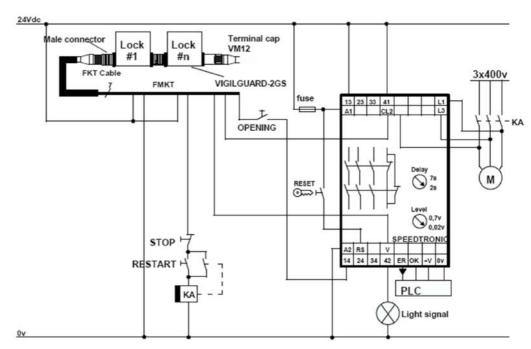


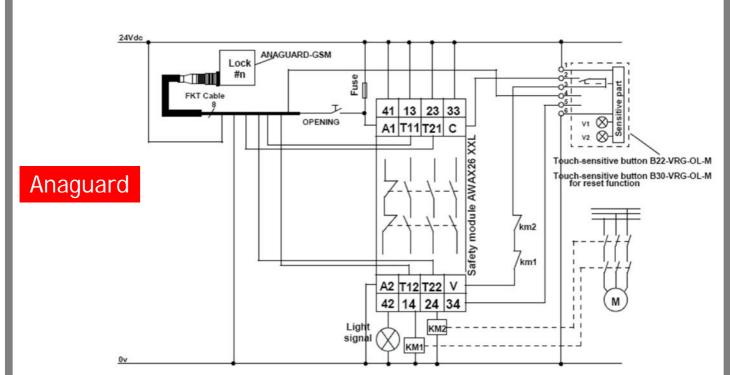


Vigilguard

Non contact coded interlocking

Wiring diagrams





Any information, applications exemple or wiring diagram described in this document are only for illustration purposes.

Choice and implementation of products made in conformity with with standards, in the aim to avoid damages to the people and goods, is under the user's responsability.

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COMITRONIC-BTi, this is also:

- stand alone safety switches
- non stand-alone safety switches
- safety relays and modules
- illuminated touch-sensitive buttons and pilot lights
- coded interlocking
- RFID access control



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