



Turning accidents through the „blind spot“

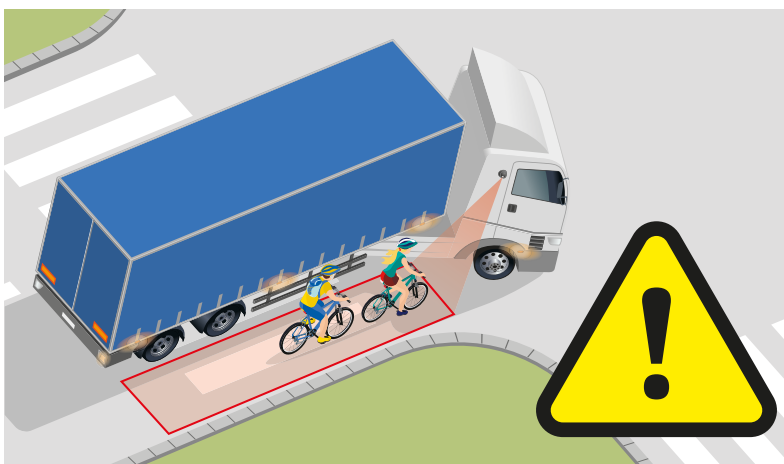
A truck turns right and hits an unprotected road user, who wanted to keep moving straight on. Most often the victims are cyclists, but sometimes also pedestrians, inline skaters, etc.

In most cases the accidents victims are run over by the truck. It goes without saying that the most serious, often fatal injuries occur.

The view from the cab of the truck is severely restricted. Cyclists, pedestrians and especially children are easily overlooked by the driver with serious consequences for life and health.

Turn-maneuvers, in which collisions between trucks turning right and Cyclists occur, have serious consequences for the vulnerable road user.

The ICA „Turn-Assist“ system monitors the vehicle's right blind spot and automatically warns the driver. The turning-assistant from Axion ensures a higher level of safety for the truck occupants and others, often unprotected, road users. With the turning-assistant, the risks of such accidents can be reduced. It protects people and values and avoids high costs, caused by such work related accidents.





ICA-B2CH-Box-System „Turn-Assist“

The ICA „Turn-Assist“ system monitors the right blind spot of the vehicle and automatically warns the driver as soon as a source of danger (other vehicles, cyclists, pedestrians, etc.) in this area shows up. Via a connection to the right-turn signal, the system is automatically switched on during the turning process.

Your advantages:

- Increased safety for drivers and other road users
- Easy installation & setting of the individual detection zones
- Monitoring of the side areas when the indicators are activated
- Optical and acoustic warning for the driver

Principle of operation:

The side camera of the ICA-B2CH monitors a defined area along the side of the vehicle.

As soon as the system is activated, via the turn-signal and a movement is detected, the system warns the driver optically (camera image) and acoustically (piezo loudspeaker).

The system can be used in conjunction with an external monitor or can be connected to various original monitors. It also offers the possibility to connect a rear view camera as well as power supply for a „warning“ LED. (not included in delivery)

Application video for the ICA-B2CH:



ICA-B2CH-BOX:

Video-Input	2 (side cameras & reverse camera)
Video-Output	1
Format video-output	PAL/NTSC(Auto)
Power supply	12/24 V
Power consumption	<15W
Operating temperature	-40 °C to +85 °C
Protection class	IP68
Size	170(L) x 120(W) x 40(H) mm
Weight	497 g

Camera:

Display	1/4 " CCD
Resolution(Pixel)	PAL: 752(H) * 582(V)
Lens	150° (horizontal) 1.61mm, F2.5
9 LED's for night vision	>8m
Horizontal resolution	600 TV-lines
Protection class	IP68
Synchronisation	Internal
Signal-to-noise ratio	>46dB(AGC out)
Power supply	DC12 V
Power consumption	<2.5 W
Operating temperature	-30 °C to +70 °C
Storage temperature	-40 °C to +80 °C
Size	85(L) x 78(W) x 97(D) mm
Weight	235 g



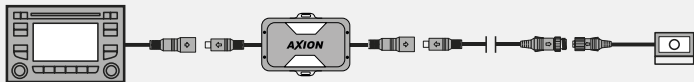
Modular system structure:

The modular-system concept of the ICA „Turn-Assist“ enables the simple implementation of stand-alone solutions as well as the convenient integration of the ICA-B2CH into existing camera monitor systems (KMS).

COMMON SYSTEM CONFIGURATION

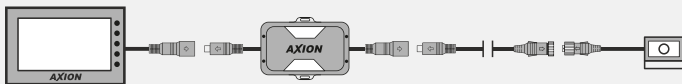
ICA-B2CH in connection with OEM manufacturer monitoring system

MAN / SCANIA / VOLVO / DAF *

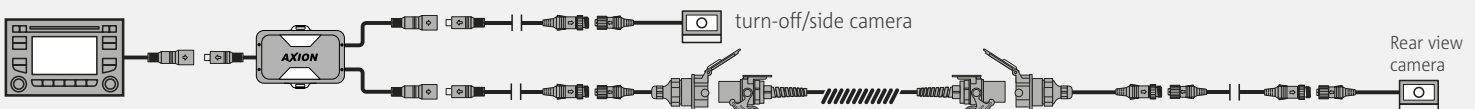


*Manufacturer-specific adaptation is required. Please contact us.

ICA-B2CH in combination with a separate monitor (AXION CRV 7005 M)



ICA-B2CH in conjunction with a rear view camera - when using a video input



Supplementary accessories:



Technical changes and errors excepted

V1050320



BMVI COMPLIANT SOLUTIONS

Around 60 percent of all serious truck/bicycles accidents could be prevented by turn-assist-systems, according to the Unfallforschung der Versicherer (UDV) based on their accident database. Compliant to the requirements of the support program for turn-assist-systems by the Federal Ministry of Transport and Digital Infrastructure (BMVI), AXION offers two versions of the turn-assist-systems.

ICA-Turn Assist AAS Set 1 consisting of:

- Side camera
- ICA Control Box
- 7" LCD TFT colour monitor
- Acoustic warning buzzer

- System activation in the speed range from 0 to 30 km/h
- Detection area activated via speed & turn signal
- Diagnostic-logic for information in case of malfunction
- Easy installation
- Additional input for rear view camera
- Additional switching outputs for external warning LED and alarms



ICA-Turn Assist AAS Set 2 consisting of:

- Side camera
- ICA Control Box
- 7" LCD TFT colour monitor
- Acoustic warning buzzer
- Steering angle sensor

- System activation in the speed range from 0 to 30 km/h
- Detection area activated via turn signal/steering angle
- Diagnostic-logic for information in case of malfunction
- Easy installation
- Additional input for rear view camera
- Additional switching outputs for external warning LED and alarms



Axion Specialist dealer

We are happy to assist you in the conception of an individual solution, taking into account all requirements and the equipment of your fleet. Just contact us!