SMART TURN SYSTEM

The most advanced self-canceling turn signals system for motorcycles

WHY CAN TURN SIGNALS CAUSE A THREAT TO THE RIDER?

Almost all motorcycles require **manual turn signal cancelation** by resetting the turn signal switch. (Only a few motorcycles from few manufacturers have a factory built in assist for automatic turn signal cancelation).

40% of riders found themselves in **dangerous situation** because of turn signals misuse:

- **delayed manual cancelling** of turn signal indicators due to focus on the road and traffic,
- **forgetting to cancel manually**, driving through an intersection with turn signal indicators on, without the intention to make a turn,
- **poorly visible dashboard** on a lot of motorcycles,
- **developing a habit of not using turn signals at all** because of concerns, that the rider will forget to cancel them.

Existing systems for automatic cancelation of turn signals are not reliable enough in most traffic situations:

- **timer related solutions** (predetermined parameter, not an exact solution, cancelling to soon or to late),
- **time and distance solutions** (predetermined parameters, suitable only in some traffic situations),
- **bank angle solutions** (predetermined parameter, doesn’t work in soft turns, roundabouts, lane changes),
- **front and rear wheel speed comparison solutions** (suitable only in some traffic situations, doesn’t detect lane changes, doesn’t work properly in roundabouts).
IS THERE A RELIABLE SOLUTION TO THE PROBLEM?

Solution that is taken for granted in cars will now save lives on motorcycles with Smart Turn System!

Smart Turn System continuously monitors, processes and stores information on the vehicle's state, position and motion. Every second sensors send 300 different data elements on:

- inclination,
- heading,
- vibrations,
- acceleration.

- developed in STS simulation software with data from hundreds of motorcycles and motorcyclists,
- over 20 parameters that help recognising manoeuvres,
- based on movement / position sensor on motorcycle,
- cancels turn signal exactly after manoeuvre is completed.

The only system that is SMART:

- continuously monitors the motorcycles movement,
- smart algorithm converts sensor data into useful information, which allows the Smart Turn System to recognise manoeuvres,
- definition of manoeuvres allows the Smart Turn System to define the exact point of cancelation of turn signals – accurate every time, regardless of the type of the manoeuvre.

The most advanced self-cancelling turn signal system for motorcycles covers all manoeuvres:

- left and right turn,
- change of lane and overtaking,
- exiting roundabout.

COMPATIBILITY

The compatibility of Smart Turn System depends on the type of the turn signal switch:

- mechanical (latching) turn signal switch – fully compatible (approx. 85% of motorcycles),
- electronic signal turn signal switch (Left hand side (LHS) switch) – in development (approx. 15% of motorcycles),
- LIN communication on LHS switch – not compatible (only some latest models of Ducati and BMW motorcycles).
WHO IS MOST LIKELY TO BE INTERESTED IN PURCHASING THE SMART TURN SYSTEM?

Smart Turn System is a device, every rider should use. The most common type of the rider, who is interested in a device like the STS, comes from below listed specific groups:

- riders between 35 and 60 years of age,
- riders who care about their safety on the road,
- riders travelling in groups (they have a lot of experience noticing blinking turn signal indicators amongst the riders in their community),
- safety gadget enthusiasts,
- electronic motorcycle equipment enthusiast,
- owners of all types of motorcycles.

SMART TURN SYSTEM SALES OPPORTUNITIES

The most convenient opportunities to offer the Smart Turn System device are:

- regular routine service,
- motorcycle customization,
- motorcycle upgrade (change of exhaust, gear indicator mount…),
- direct search for automatic turn signal cancelation system,
- riders buying safety equipment,
- motorcycle equipment innovation enthusiasts.
HOW TO GENERATE INTEREST OF A RIDER FOR THE SMART TURN SYSTEM:

**IMPORTANT QUESTIONS:**

- Have you ever noticed a rider with his turn signals on but with no intention to make a turn?
- What is the main reason a rider sometimes forgets to turn off his turn signal indicators?
- Do you believe that the wrong use of turn signals could influence the riders’ safety?
- Would you have a system, which reliably cancels your turn signals exactly when manoeuvre is completed?
- Do you believe that a reliable system that automatically cancels turn signals, similar to the system we use in cars, should become standard equipment on every motorcycle?

**PRESENT A SOLUTION:**

Smart Turn System continuously monitors processes and stores information on the vehicles state, position and motion. Every second sensors send 300 different data elements on:

- inclination,
- heading,
- vibrations,
- acceleration,

resulting in efficiently and accurately recognising all manoeuvres:

- left and right turn,
- change of lane and overtaking,
- exiting roundabout.

**BENEFITS OF SMART TURN SYSTEM:**

- increases the riders safety and of the other occupants in traffic,
- allows the rider more time to focus on the road and traffic around him,
- upgraded motorcycle to the riders skills.

**WATCH FOR MOTORCYCLES AND LOOK AHEAD!**
REFERENCES:
- online articles,
- reviews,
- forums,
- satisfied users testimonials,
- video presentations,
- video comparisons,
- FAQ,
- tabletop presentation.

SAFER. SMARTER. FOR PURE JOY OF RIDE.

WITH STS, RIDERS CAN FOCUS ON THE NEXT DECISION, RATHER THAN THE LAST ONE.

LET'S MAKE THE ROAD A SAFER PLACE FOR MOTORCYCLIST!