BERNARD GRUPPE

Product Sheet

BMA TLC

BERNARD Mobility Analyser Traffic Light Controller

Adaptive traffic control in real time – for more efficient and sustainable intersections

- **Smooth Traffic Flow**
  Shorter waiting times through dynamic signal control
- **Prioritisation**
  Targeted prioritisation of cyclists, pedestrians, buses, trams and other road users
- **Reduced Infrastructure Requirements**
  Lower installation and maintenance effort
- **Flexible**
  Integration into existing traffic light controllers

Overview

Rigid signal programmes quickly reach their limits in complex traffic networks. The **BMA TLC** enables adaptive traffic control in real time: traffic lights respond dynamically to actual traffic conditions – instead of following fixed time schedules.

The BMA TLC detects and classifies road users in real time and transmits switching impulses via the **BERNARD Mobility Controller (BMC)** directly to the traffic light controller – a flexible alternative to induction loops and conventional sensor technology.

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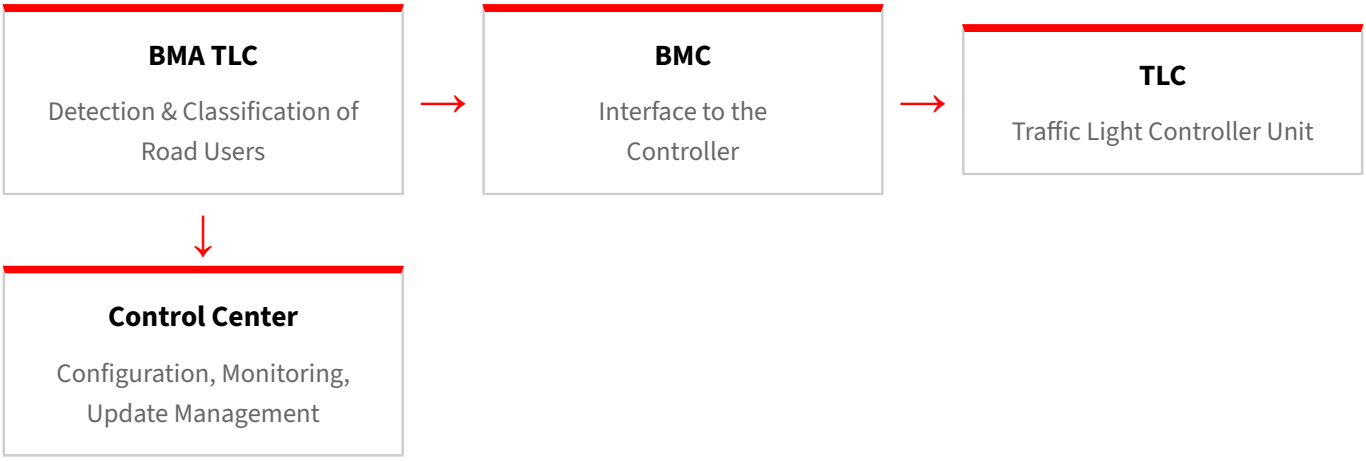
Core Features

- **Robust Real-Time Detection**
  Detection of road users in 12+1 classes
- **Virtual Loop**
  Up to 12 virtual loops for presence detection via BMC
- **Privacy-Compliant**
  Local image processing and pixelation of road users in configuration mode
- **Simple Cabling**
  Communication between BMA TLC and BMC runs over a 2-wire line of up to 300 m.
- **Traffic Light Integration**
  Seamless connection of existing traffic light systems via potential-free contacts through BMC
- **Service-Friendly**
  Remote diagnostics via LTE or on-site

System Integration



Typical Applications

- Signalised intersections in urban areas
- Prioritisation of non-motorised traffic or public transport
- Retrofitting existing traffic light systems

Contact

Test the BMA TLC at your intersection →

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