

Automatic Vehicle Classifier

Optical Scanner

BCI-1005

The optical scanner BCI-1005 automatically and accurately assess the vehicle class in toll lanes by reading several parameters, including start and end points of the vehicle, height, number of axles, including lifted axles and the presence of drawbars. All this allows for a high degree of accuracy in identifying and classifying vehicles and related toll collection.



Designed to withstand various environmental conditions, it is capable of operating in adverse weather conditions, including situations of poor visibility and the presence of solar reflections.

Compared with traditional equipment, it does not require bulky installations or meticulous maintenance activities.

SHORT TECHNICAL DATA

- Case dimensions: 1900x310x260 mm – 2950x310x260 (HxWxD)
- Weight: 48 kg for 1,90 m optical scanner – 65 kg for 2,95 m one
- Base plate dimensions: 360x360 mm
- Maximum detection height: 1,79 m (for 1,90 m) and 2,90 m (for 2,95 m)
- Axles counting area: from 8 mm to 600 mm from the base plate
- Distance between TX and RX: from 2,80 m to 5 m max. typical Lane Optional for Wide Lane up to 7 m
- Min. Clearance detected: 100 mm
- Min lane diameter detected: 300 mm
- Mains voltage: 220 Vac $\pm 10\%$
- Power supply:
 - 190 W each unit
 - 40 W for logic unit
 - 150 W for heater
- Input signals: 12x free-of-voltage contact
- Output signals:
 - 8x open collector
 - NPN optocoupler Max Vce=80V, Ic=10mA
- Serial communication:
 - 2x UART RS-232
 - 1x UART RS-485 Optional
- Network Interface: Ethernet 10/100
- Operating System: Linux Embedded
- Temperatures
 - -20°C ÷ +60°C (operating)
 - -50°C ÷ +80°C (storage)