

# An Introduction To Signalised Junctions And Crossing Facilities In The UK

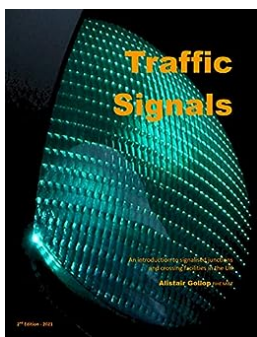
Signalised junctions and crossing facilities are vital components of the transport infrastructure in the UK, ensuring the smooth flow of traffic and enhancing pedestrian safety. In this article, we will explore the various types of signalised junctions and crossing facilities commonly found across the country.

## 1. Traffic Signal Junctions

Traffic signal junctions are the most common type of signalised junctions in the UK. They involve the use of traffic lights to control vehicles at intersections and ensure an organized flow of traffic. At these junctions, each approach is assigned a specific signal phase that determines when it can proceed.

### 1.1 All-Way Signalised Junction

An all-way signalised junction, also known as a four-way junction, controls traffic flow from all directions using traffic lights. It incorporates pedestrian crossing facilities to ensure safe movement for pedestrians. These junctions often have separate signal phases for vehicles and pedestrians.



## Traffic Signals: An introduction to signalised junctions and crossing facilities in the UK

by Alistair Gollop (Kindle Edition)

★★★★★ 5 out of 5

Language : English

File size : 23875 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 157 pages



## 1.2 Dual-Flow Signalised Junction

A dual-flow signalised junction consists of two separate signalised junctions adjacent to each other, allowing traffic to flow in both directions on a dual carriageway. Each junction controls traffic flow in its respective direction. Pedestrian crossings are provided on both sides of the carriageway.

## 2. Pedestrian Crossing Facilities

Pedestrian safety is a crucial aspect of transportation planning. Signalised crossings are designed to provide safe and convenient options for pedestrians to cross roads. The most common types of pedestrian crossing facilities include:

### 2.1 Zebra Crossing

A zebra crossing is a signalised crossing that features distinctive black and white stripes on the road. It provides priority to pedestrians, allowing them to cross while vehicles come to a halt. Zebra crossings are often located near schools, parks, and other areas with high pedestrian activity.

### 2.2 Puffin Crossing

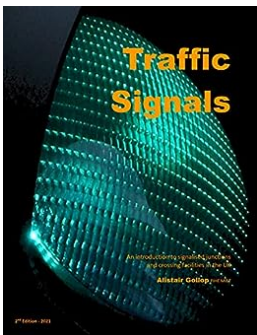
A puffin crossing is an advanced type of signalised pedestrian crossing that uses sensors to detect the presence of pedestrians. It extends the green signal timing if pedestrians need more time to cross the road. Puffin crossings have features like pedestrian detectors, signal heads at eye level, and audible signals for visually impaired individuals.

### 3. Toucan Crossing

Toucan crossings are designed to accommodate both pedestrians and cyclists. They have a wider crossing space to allow cyclists to cross the road alongside pedestrians. Toucan crossings typically have distinctive green and red bicycle symbols on the signal heads to guide cyclists.

### 4.

Signalised junctions and crossing facilities play a crucial role in maintaining traffic efficiency and ensuring pedestrian safety in the UK. They are designed to provide a balanced approach to accommodate the various modes of transportation. Whether it's an all-way signalised junction or a toucan crossing, each facility is meticulously planned to optimize the flow of traffic and minimize risks for pedestrians and cyclists.



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Since their first worldwide, at Bridge Street, Westminster in 1868, traffic signals have subsequently developed alongside the rapid growth of motorised traffic

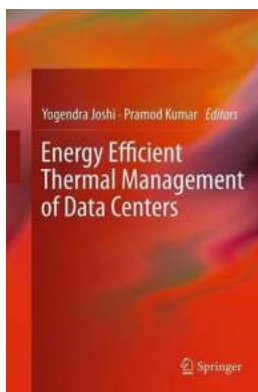
during the following years, to attain a complexity unimaginable to the early pioneers in the signal field.

Do you know what these terms refer to and the differences between them?

MAN, VA, FXT, CLF, UTC, SCOOT and MOVA

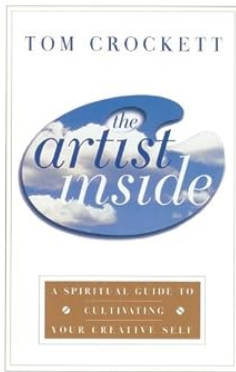
In addition to the history of pioneering signal development, *Traffic Signals* looks at the way in which modern signals operate and the equipment commonly used in current traffic control systems in the UK. It also looks at how signalised junctions and crossings are designed, explaining the fundamental design principles, and how these are used by modern software modelling tools to predict traffic operation.

The 2nd Edition of this book has been updated and includes additional information to reflect developments that have occurred in the sector. This book is intended as an to the subject, please refer to “Traffic Control: A traffic systems companion guide to Chapter 6 of DfT’s Traffic Signs Manual



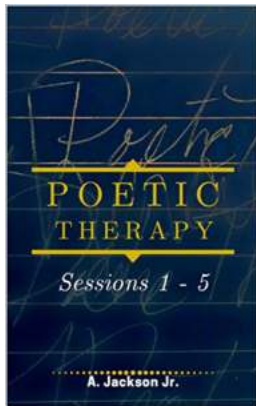
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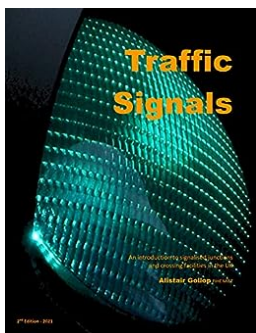
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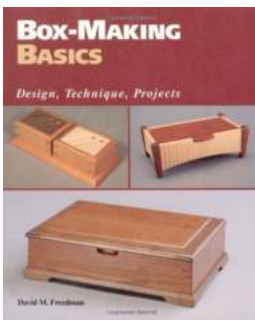
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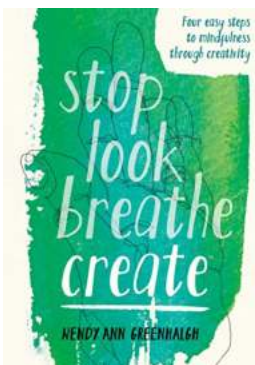
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