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By **Claude Tauleigne**
Trainer Nikon Passion

Order

Interpretation of signals objective case, or My 35-70 is down (more)

Interpretation of signals objective case, or **My 35-70 is down (more),** *by Gazalou*

In the previous article, we learned that the link between housing and the aim is bidirectional and synchronous, probably orchestrated by a signal RW1.

Let immediately end the suspense: the way that the signal RW1 to arbitrate the bus is described in a document from Nikon lurette (US Patent 4896181).
Let me bring this document with my words and my drawings.

This is a little scheme that will help to understand the RW1:

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By Laurence Huriaux

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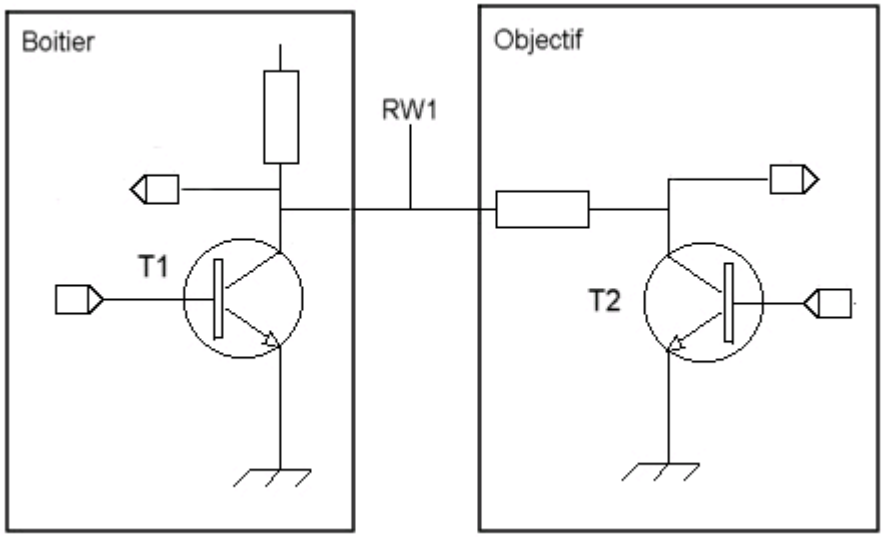


Sending a byte by the cabinet towards the goal

The housing authority instead of the RW1 to 0 per T1.
If the goal is to agree to receive the byte, it puts in turn RW1 to 0 (that is) by T2 and is being received.
After a short timeout (1500 us), the cabinet is trying to increase the RW1 to 1.
If it rises to 1 is that the goal does not agree to receive or simply that it is missing, broken, or AI (S). It retentera operation later (30 ms after).
While it remains to 0 is that, on the other hand, keeps the goal by T2 and is ready to receive.
The control box sends his octet generating clock (CLK) and the signal given (SI / O).
Having received, decoded, understood and validated the 8-bit byte, the goal puts RW1 to 1.
It's done.

Sending a byte by the objective to the cabinet

The objective of authority place the RW1 to 0 by T2.
The housing generates clock (CLK) and the goal sent his octet at the rate of CLK (64 us by bit).
After receiving 8 forehead amounts clock, the goal puts RW1 to 1.
It's done.

Of course, it is necessary to liaise with timeouts judiciously placed. The communication was abruptly interrupted when the photographer relentless pressure on the trigger.

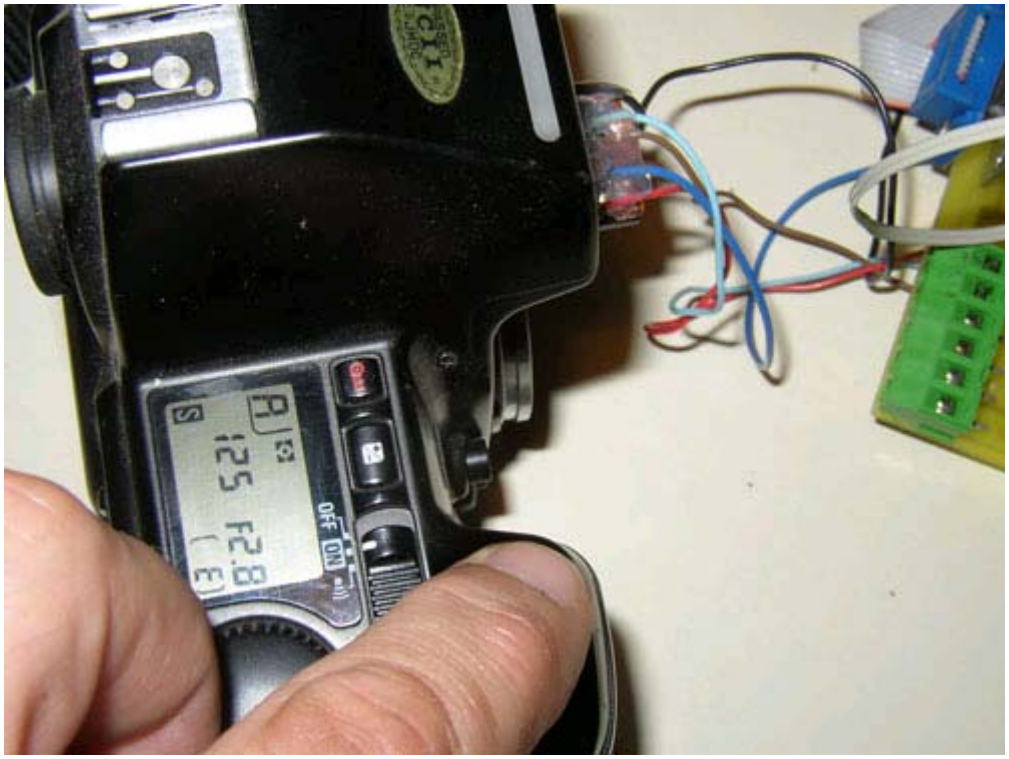
End of translation.

Well then! This is what is being said between the 2 things?

Well, let us say that the case is the first to speak, it sends the byte value **34 (0x22).**
The goal then immediately sends his frame of 26 bytes (see table of the previous article).

Finally, the bytes are sent low bit first.

Come on, I try with the data of f2.8 24mm:



It works! Anyway on my F801. That was the purpose of manipulation. No?
Now, I just tinker around to incorporate my bazaar in the zoom.

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