# Information for Operating Instruction

## OPT291

### Functions which differ from the Y1TA100MHT88 standard device:

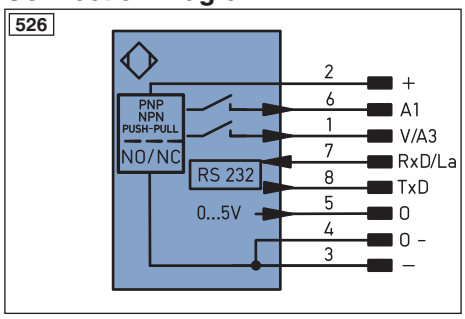
**Technical data:**

| | |
|---|---|
| Optical Data | |
| Working Range | 100…1600 mm |
| Electrical Data | |
| Supply Voltage | 12…24 V DC |
| Analog Output | 0…5 V |

### Delivery Status

| | | |
|---|---|---|
| Analog | U | U |
| | 0 V | 1600 mm |
| | 5 V | 100 mm |
| Measurement Rate | | 10 Hz |

### Connection Diagram




Legend

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| + | Supply Voltage + | PT | Platinum measuring resistor | $EN_A$ | Encoder A |
| – | Supply Voltage 0 V | nc | not connected | $EN_B$ | Encoder B |
| ~ | Supply Voltage (AC Voltage) | U | Test Input | $A_{M\,N}$ | Digital output MIN |
| A | Switching Output (NO) | Ū | Test Input inverted | $A_{MAX}$ | Digital output MAX |
| Ā | Switching Output (NC) | W | Trigger Input | $A_{OK}$ | Digital output OK |
| V | Contamination/Error Output (NO) | O | Analog Output | SY In | Synchronization In |
| V̄ | Contamination/Error Output (NC) | O– | Ground for the Analog Output | SY OUT | Synchronization OUT |
| E | Input (analog or digital) | BZ | Block Discharge | $O_{LT}$ | Brightness output |
| T | Teach Input | AMV | Valve Output | | |
| Z | Time Delay (activation) | a | Valve Control Output + | | **Wire Colors according to DIN IEC 757** |
| S | Shielding | b | Valve Control Output 0 V | | |
| RxD | Interface Receive Path | SY | Synchronization | BK | Black |
| TxD | Interface Send Path | E+ | Receiver-Line | BN | Brown |
| RDY | Ready | S+ | Emitter-Line | RD | Red |
| GND | Ground | ⏚ | Grounding | OG | Orange |
| CL | Clock | SnR | Switching Distance Reduction | YE | Yellow |
| E/A | Output/Input programmable | Rx+/– | Ethernet Receive Path | GN | Green |
| | IO-Link | Tx+/– | Ethernet Send Path | BU | Blue |
| PoE | Power over Ethernet | Bus | Interfaces-Bus A(+)/B(–) | VT | Violet |
| IN | Safety Input | La | Emitted Light disengageable | GY | Grey |
| OSSD | Safety Output | Mag | Magnet activation | WH | White |
| Signal | Signal Output | RES | Input confirmation | PK | Pink |
| M | Maintenance | EDM | Contactor Monitoring | GNYE | Green Yellow |

Specifications are subject to change without notice
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