

## FP11PCT80

Part Number



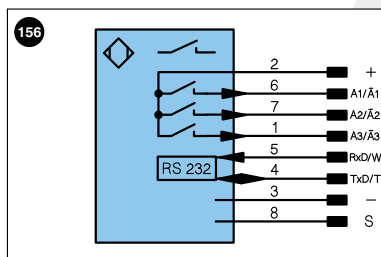
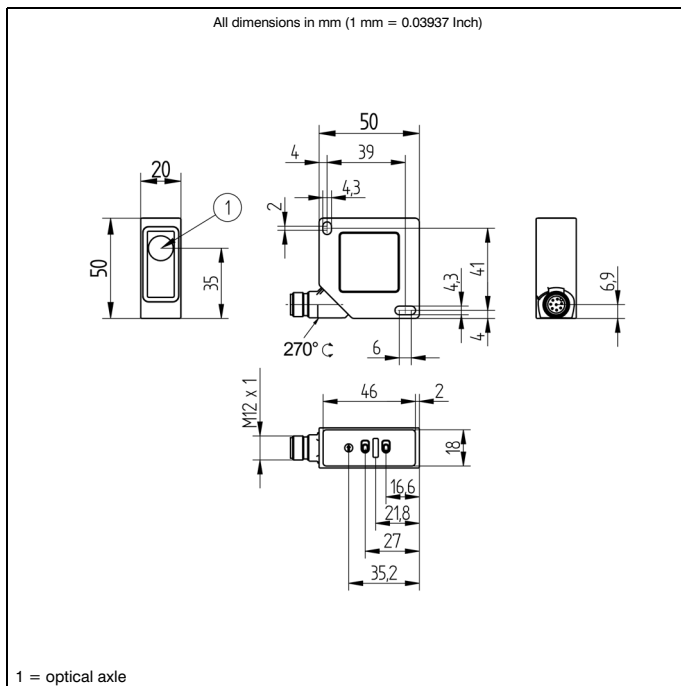
- Extremely fine color nuances can be recognized
- for Transparent Media
- RGB signal via the RS-232 Interface
- Teach-In and external Teach-In

This color sensor is capable of evaluating up to three colours simultaneously. A small spot and a large working range are made possible thanks to single-lens optics. All sensor settings can be selected by means of Teach-In, as well as via the RS-232 interface. Values generated by the sensor can be read out via the interface or digital switching outputs. The sensor has 3 PNP switching outputs and supplies RGB color values via the interface.



### Technical Data

| Optical Data                               |              |
|--|--------------|
| Working Range                              | 10...1000 mm |
| Reference Reflector/Reflex Foil            | RE6151BM     |
| Light Source                               | White Light  |
| Service Life (T = +25°C)                   | 100000 h     |
| max. Ambient Light                         | 10000 Lux    |
| Light Spot Diameter                        | 10 mm        |
| Electrical Data                            |              |
| Supply Voltage                             | 10...30 V    |
| Current Consumption (U <sub>b</sub> = 24V) | < 50 mA      |
| Switching Frequency                        | 1660 Hz      |
| Response Time                              | 300 µs       |
| On-/Off-Delay                              | 0...1 s      |
| Temperature Range                          | -25...60 °C  |
| Switching Outputs                          | 3            |
| Switching Output Voltage Drop              | 1,5 V        |
| PNP Switching Output/Switching Current     | 200 mA       |
| Short Circuit Protection                   | yes          |
| Reverse Polarity Protection                | yes          |
| Teach Mode                                 | FT           |
| Interface                                  | RS-232       |
| Baud Rate                                  | 38400 Bd     |
| Digital Inputs                             | 2            |
| Mechanical Data                            |              |
| Adjustment                                 | Teach-In     |
| Housing                                    | Plastic      |
| Degree of Protection                       | IP67         |
| Connection                                 | M12 x 1      |
| Protective Insulation, Rated Voltage       | 50 V         |
| PNP NO/NC switchable                       | ●            |
| RS-232 Interface                           | ●            |
| Connection Diagram No.                     | 156          |
| Control Panel No.                          | P 4          |
| Suiting Connection Technology No.          | 80           |
| Suiting Mounting Technology No.            | 380          |



#### Legend

|         |                                 |       |                              |
|---------|---------------------------------|-------|------------------------------|
| +       | Supply Voltage +                | U     | Test Input                   |
| -       | Supply Voltage 0V               | Ū    | Test Input inverted          |
| ~       | Supply Voltage (AC Voltage)     | W     | Trigger Input                |
| A       | Switching Output (1,2,3...)/NO  | O     | Analog Output                |
| Ā      | Switching Output (1,2,3...)/NC  | O-    | Ground for the Analog Output |
| V       | Contamination/Error Output (NO) | BZ    | Block Discharge              |
| V̄      | Contamination/Error Output (NC) | AWV   | Valve Output                 |
| E       | Input (analog or digital)       | a     | Valve Control Output +       |
| T       | Teach Input                     | b     | Valve Control Output 0V      |
| Z       | Time Delay (activation)         | SY    | Synchronization              |
| S       | Shielding                       | E+    | Receiver-Line                |
| RxD     | RS-232 Receive Path             | S+    | Emitter-Line                 |
| TxD     | RS-232 Send Path                | ±     | Grounding                    |
| RDY     | Ready                           | SnR   | Switching Distance Reduction |
| GND     | Ground                          | USBD+ | USB data +                   |
| CL      | Clock                           | USBD- | USB data -                   |
| E/A     | Output/Input programmable       | Bus   | Interfaces-Bus A(+)/B(-)     |
| IO-Link |                                 | La    | Emitted Light disengageable  |

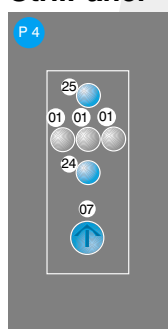
#### Wire Colors according to DIN IEC 757

|      |              |
|------|--------------|
| BK   | Black        |
| BN   | Brown        |
| RD   | Red          |
| OG   | Orange       |
| YE   | Yellow       |
| GN   | Green        |
| BU   | Blue         |
| VT   | Violet       |
| GY   | Grey         |
| WH   | White        |
| PK   | Pink         |
| GNYE | Green Yellow |

## Complimentary Products

Protection Housing ZSV-0x-01  
Serial Interface Adapter S232W3

## Ctrl.Panel



01 = Switching Status Indicator  
07 = Selector Switch  
24 = Plus Button  
25 = Minus Button