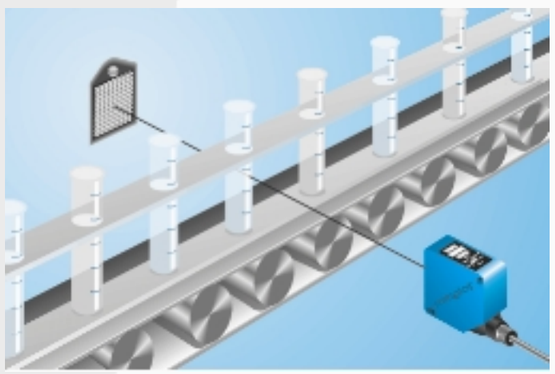
FP11PCT80

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**

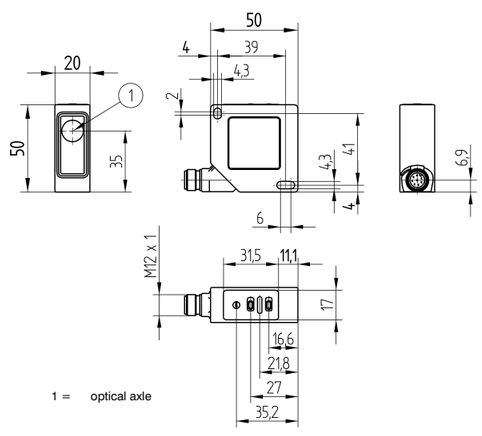
This color sensor is capable of evaluating up to three colors simultaneously. A small spot and a large working range are made possible thanks to single-lens optics. All sensor settings can be selected by means of Teach-In, as well as via the RS-232 interface. Values generated by the sensor can be read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



Technical Data

Optical Data	
Working Range	10...1000 mm
Reference Reflector	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 (Ub = 24V)	< 50 mA
Switching Frequency	1660 Hz
Response Time	300 µs
ON-/OFF-Delay	yes
Time Delay	10...1000 ms
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
Protocol	8 N 1
Digital Inputs	2
Mechanical Data	
Adjustment	Teach-In
Housing	Plastic
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V

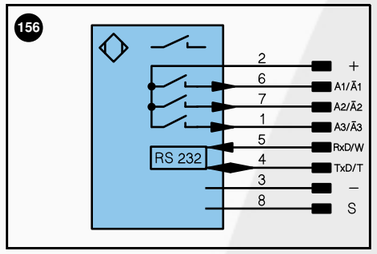
All dimensions in mm (1 mm = 0.03937 Inch)



Specifications are subject to change without notice

11/03

	Plug Version
	Part Number: FP11PCT80
PNP NO/NC switchable	●
RS-232 Interface	●
Connection Diagram No.	156
Control Panel No.	P 4
Suitable Plug No.	80



Legend

+	Power supply "+"	U	Test input	BK	black
–	Power supply "0V"	W	Trigger input	BN	brown
~	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	RD	red
A	Switching output (1,2,3...) / NO	O–	Ground for the analog output	OG	orange
Ā	Switching output (1,2,3...) / NC	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NO)	AW	Valve output	GN	green
V̄	Contamination / Error output (NC)	a	Valve control output "+"	BU	blue
E	Input (analog or digital)	b	Valve control output "0V"	VT	violet
T	Teach input	SY	Synchronization	GY	grey
Z	Time delay (activation)	E+	Receiver-Line	WH	white
S	Shielding	S+	Emitter-Line	PK	pink
RxD	RS-232 receive path	⏚	Grounding	GNYE	green yellow
TxD	RS-232 send path				

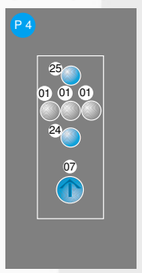
Wire colors according to DIN IEC 757

Accessories

Mounting Bracket WP

Serial Interface Adapter S232W2

Ctrl.Panel



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