

Instructions for replacing the FP04PCT80 Color Sensor with the OFP401P0189

Successor product OFP401P0189 has different circuit diagram than FP04PCT80

The pin assignments for the OFP401P0189 are in compliance with the new DIN EN 60947-5-2 (VDE 0660-208):2008-08; EN60947-5-2:2007. As a result, supply power must be connected to pin 1 (+) and pin 3 (–) on all new 8-pin products. In the case of the FP04PCT80 Color Sensor, supply power is connected to pin 2 (+) and pin 3 (–).

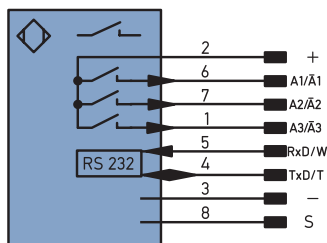


CAUTION!

If you want to connect the OFP401P0189 with your old wenglor S80 Connection Line (e.g. S80-2M), the white and brown wires have to be exchanged before starting up the sensor.

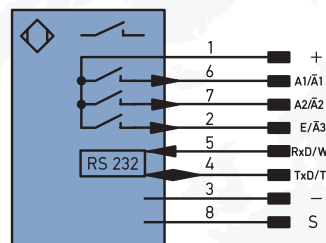
Connection Diagram Sensor FP04PCT80

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Connection Diagram Sensor OFP401P0189

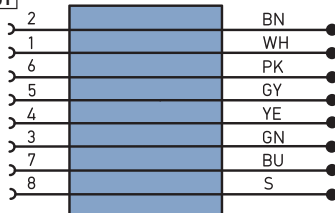
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Connection Diagram Connection Technology with old pin assignment

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S01



Legend

+	Supply Voltage +
–	Supply Voltage 0 V
~	Supply Voltage (AC Voltage)
A	Switching Output (NO)
Ā	Switching Output (NC)
V	Contamination/Error Output (NO)
Ȳ	Contamination/Error Output (NC)
E	Input (analog or digital)
T	Teach Input
Z	Time Delay (activation)
S	Shielding
RxD	Interface Receive Path
TxD	Interface Send Path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable
	IO-Link
PoE	Power over Ethernet
IN	Safety Input
QSSD	Safety Output
Signal	Signal Output
Bi_D+/-	Ethernet Gigabit bidirect. data line (A-D)
EN0RS422	Encoder 0-pulse 0-Ā (TTL)

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ū	Test Input inverted
W	Trigger Input
O	Analog Output
O–	Ground for the Analog Output
BZ	Block Discharge
AWV	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
E+	Receiver-Line
S+	Emitter-Line
≐	Grounding
SnR	Switching Distance Reduction
Rx+/-	Ethernet Receive Path
Tx+/-	Ethernet Send Path
Bus	Interfaces-Bus A(+)/B(–)
La	Emitted Light disengageable
Mag	Magnet activation
RES	Input confirmation
EDM	Contacting Monitoring
ENAR5422	Encoder A/Ā (TTL)
ENBR5422	Encoder B/B̄ (TTL)

ENa	Encoder A
ENb	Encoder B
AMIN	Digital output MIN
AMAX	Digital output MAX
AOK	Digital output OK
SY In	Synchronization In
SY OUT	Synchronization OUT
Out	Brightness output
M	Maintenance

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