

Notice of Discontinuation

OPT307

Reflex Sensor with Background Suppression



EN

Notice of Discontinuation

Discontinued product: OPT307



Recommended successor product: OPT1601

Discontinued by: 31.03.2016

Key Differences

The successor product has a second plug. The successor product has a longer connection cable (2 m).

Please find a detailed product comparison below:

Technical Data	Discontinued Product OPT307	Successor Product OPT1601
Photo of Product		
Optical Data		
Range	760 mm	900 mm
Potentiometer min	250 ... 300 mm	
Potentiometer center	400 ... 550 mm	
Potentiometer max	760 ... 900 mm	
Switching Hysteresis	< 15 %	< 5 %
Light Source	Infrared Light	Infrared Light
Wavelength	880 nm	860 nm
Service Life (T = +25 °C)	100000 h	100000 h
Risk Group (EN 62471)	1	1
Max. Ambient Light	10000 Lux	90000 Lux
Opening Angle	5 °	3 °
Electrical Data		
Supply Voltage	18 ... 30 V DC	20.6 ... 30 V DC
Current Consumption Sensor (U _b = 24 V)	< 30 mA	< 16 mA
EcoMode		yes
Switching Frequency	100 Hz	100 Hz
Response Time	5 ms	5 ms
Temperature Drift	< 10 %	< 5 %
Temperature Range	-15 ... 50 °C	-40 ... 60 °C (ohne Ventil)
Number of Switching Outputs	1	1
Switching Output Voltage Drop	< 0.8 V	< 0.9 V

Technical Data	Discontinued Product OPT307	Successor Product OPT1601
PNP Switching Output/Switching Current	200 mA	200 mA
Reverse Polarity Protection	yes	yes
Short Circuit Protection	yes	yes
Overload Protection	yes	yes
Logic	yes	yes
Single Discharge	yes	yes
Block Forwarding	yes	yes
Solenoid Valve	yes	yes
Protection Class	III	III

Mechanical Data

Setting Method	Potentiometer	Potentiometer
Housing Material	Plastic	Plastic, ABS/GF
Full Encapsulation	yes	
Degree of Protection	IP65	IP65
Connection	M12 × 1; 4-pin	M12 × 1; 4-pin
Cable Length	880 mm	2 m

Pneumatic Solenoid Valve Unit

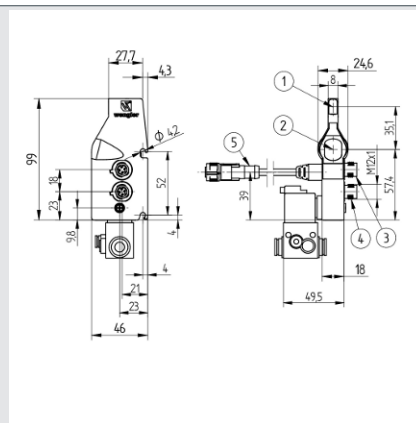
Valve no.	K04	K04
Supply Voltage Valve	19.2 ... 28.8 V	19.2 ... 28.8 V
Current Consumption Valve	86 mA	86 mA
Valve temperature range	-15 ... 50 °C	-15 ... 50 °C
Operating Pressure	4 ... 7 bar	4 ... 7 bar
Nominal Width	0.8 mm	0.8 mm
Nominal flow rate 1 -> 2	20 NI/min	20 NI/min
Nominal flow rate 2 -> 3	100 NI/min	100 NI/min
Supply-Line Connector Pipe	2× 8×1	2× 8×1
Working-Line Connector Pipe	4×1	4×1
Valve function	3/2-Way	3/2-Way
Switching function	NC	NC

Output Functions

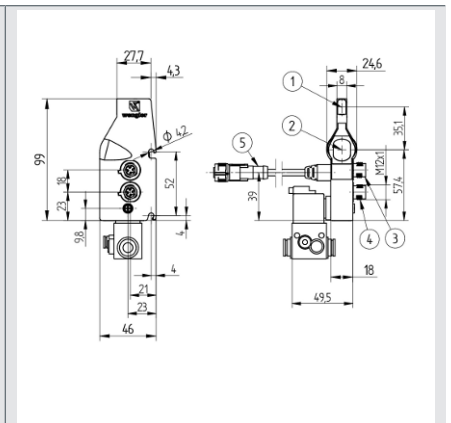
Output	PNP	PNP
	NC	NC

Technical drawings/connection diagrams/approvals

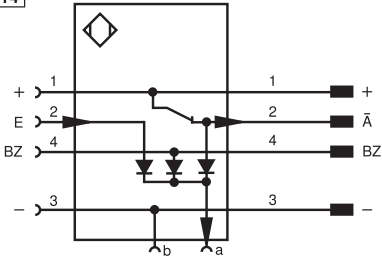
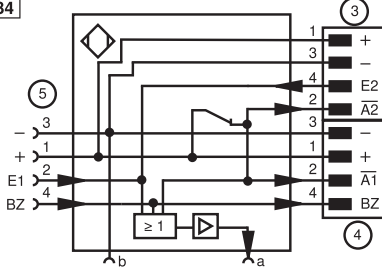

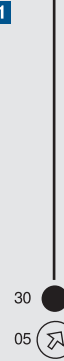
Dimensioned Picture



- ① = Transmitter Diode
② = Receiver Diode



- ① = Transmitter Diode
② = Receiver Diode

Technical Data	Discontinued Product OPT307	Successor Product OPT1601
Connection Diagram	<p>714</p> 	<p>734</p> 
Ctrl. Panel	<p>OP1</p>  <p>30 = Switching Status/Contamination Warning 05 = Switching Distance Adjuster</p>	<p>OP1</p>  <p>30 = Switching Status/Contamination Warning 05 = Switching Distance Adjuster</p>
Approvals	