



through-beam, retro-reflective, dif. reflection sensors 2700

dimensions 24 x 88 x 63mm

through-beam sensoroperating range20mretro-reflective sensoroperating range8mdiffuse reflection sensorsensing range1.5m



- ✓ robust plastic housing
- √ retro-reflective sensor with polarizing filter
- ✓ status display by LED
- ✓ LED display for functional reserve
- ✓ reverse polarity protection
- √ high sensing ranges
- ✓ connecting terminals

univ. power supply with relay output turn-on/off delay











description

Optoelectronic sensors are indispensable components in all automated production processes. They are used in all applications where parts are to be detected, counted, measured or positioned in a way which does not involve contact and which is reliable and fast.

The devices feature a plastic housing and are used for automatic production processes and machines. For example, they detect objects made from metal, glass, plastic, wood

and paper.

The yellow LED display lights up if the output is securely switched.

application examples

- distance control
- position recognition
- color-independent object recognition



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optical sensors

2700 through-beam, retro-reflective, dif. reflection sensors



article-no.	OE255800	OS255000	
version	receiver / through-beam sensor	transmitter / through-beam sensor	
operating range	es de la contraction de la con	* optical axis: 10mm	
TECHNICAL DATA	20.00		
operating range output signal	20m relay, 1 change-over contact	-	
· · · · · · · · · · · · · · · · · · ·			
operating voltage	12 265V AC/DC	12 265V AC/DC	
current consumption (w/o load)	≤ 10mA	≤ 10mA	
output current (max. load)	3A	-	
transmitting element (pulsed)	·	LED, infrared light	
wavelength (transmitter)	-	880nm	
hysteresis	< 10%		
repeat accuracy	10%	-	
recovery time	< 60ms	< 60ms	
turn-on delay	0 10s, adjustable by potentiometer	-	
turn-off delay	0 8s, adjustable by potentiometer	-	
sampling frequency	max. 50Hz	-	
readiness delay	< 60ms	-	
turn-on delay	≤ 10ms	•	
display (signal/operation)	yellow LED / -	- / green LED	
sensitivity adjustment	+	•	
short-circuit protection	-		
reverse polarity protection	+	+	
dimensions	24x88x63mm	24x88x63mm	
housing material	PA 6.6	PA 6.6	
front screen material	PA 12	PA 12	
operating temperature	-20 +70°C	-20 +70°C	
degree of protection (EN 60529)	IP65 *	IP65 *	
connection	junction box 5-pin connecting terminals	junction box 5-pin connecting terminals	
mounting accessories (bracket)	AO000055	AO000055	
* Only with mounted cable gland and cable			



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article-no.	OR255800	OR255805	OT255800
version	retro-reflective sensor	retro-reflective sensor with polarizing filter	diffuse reflection sensor
operating range / sensing range	8m	6m	1.5m
	63 38 LED 98.5 Very optical axis: 16mm	63 38 LED 95.5 * optical axis: 16mm	63 38 LED 95.5 optical axis: 16mm
TECHNICAL DATA			
operating range/sensing range	8m	6m	1.5m
output signal	relay, 1 change-over contact	relay, 1 change-over contact	relay, 1 change-over contact
operating voltage	12 265V AC/DC	12 265V AC/DC	12 265V AC/DC
current consumption (w/o load)	≤ 10mA	≤ 10mA	≤ 10mA
output current (max. load)	3A	3A	3A
transmitting element (pulsed)	LED, infrared light	LED, infrared light	LED, infrared light
wavelength (transmitter)	880nm	880nm	880nm
hysteresis	< 10%	< 10%	< 10%
repeat accuracy	10%	10%	5%
recovery time	< 60ms	< 60ms	< 60ms
turn-on delay	0 10s, adjustable by potentiometer	0 10s, adjustable by potentiometer	0 10s, adjustable by potentiometer
turn-off delay	0 8s, adjustable by potentiometer	0 8s, adjustable by potentiometer	0 8s, adjustable by potentiometer
sampling frequency	max. 50Hz	max. 50Hz	max. 50Hz
readiness delay	< 60ms	< 60ms	< 60ms
turn-on delay	≤ 10ms	≤ 10ms	≤ 10ms
display (signal/operation)	yellow LED / -	yellow LED / -	yellow LED / -
sensitivity adjustment	+	+	+
short-circuit protection	-	-	-
reverse polarity protection	+	+	+
dimensions	24x88x63mm		
			24x88x63mm
housing material	PA 6.6	PA 6.6	PA 6.6
front screen material	PA 12	Glas	PA 12
operating temperature	-20 +70°C	-20 +70°C	-20 +70°C
degree of protection (EN 60529)	IP65 *	IP65 *	IP65 *
connection mounting accessories (bracket)	junction box 5-pin connecting terminals AO000055	junction box 5-pin connecting terminals AO000055	junction box 5-pin connecting terminals AO000055
* Only with mounted cable gland and cable			







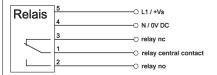
optical sensors

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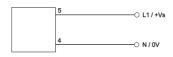


connection

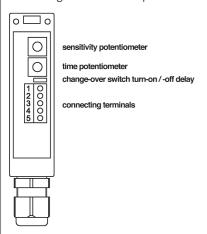
receiver, retro-reflective sensor, diffuse reflection sensor



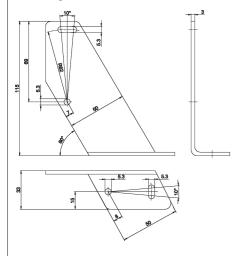
transmitter



connecting terminals and operator controls



mounting bracket AO000055



This data sheet contains the standard versions only. Kindly request the availability of other output- and connection functions. Warning: Never use these devices in applications where the safety of a person depends on their functionality.



This data sheet as well as your personal contact can be found at www.ipf-electronic.com

