

SmartReflect Light barriers

O300.SP

sample drawing



general data

type	light barrier
light source	pulsed PinPoint LED
background position Sde	30 ... 300 mm
power on indication	LED green
light indicator	LED yellow
wave length	630 nm
suppression of reciprocal influence	yes
alignment optical axis	< 2°

electrical data

voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	45 mA
current consumption typ.	30 mA
voltage drop Vd	< 3 VDC
output function	light / dark operate
output current	< 100 mA
short circuit protection	yes
reverse polarity protection	yes

mechanical data

width / diameter	12,9 mm
height / length	32,3 mm
depth	23 mm
type	rectangular
housing material	plastic (ASA, PMMA)
front (optics)	PMMA

ambient conditions

operating temperature	-25 ... +60 °C
protection class	IP 67

sample picture



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order reference	version	connection types	output circuit	sensing distance adjustment	response time / release time	scanning range Sa	minimal signal attenuation
O300.SP-11120122	standard object detection	cable 4 pin, 2 m	push-pull	qTeach / external	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11110450	standard object detection	connector M8 4 pin	push-pull	qTeach / external	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11140097	standard object detection	flylead connector M8, L=200 mm	push-pull	qTeach / external	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11139109	standard object detection	flylead connector M12, L=200 mm	push-pull	qTeach / external	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11125077	standard object detection	cable 4 pin, 2 m	push-pull	Teach-in and IO-Link	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11125057	standard object detection	connector M8 4 pin	push-pull	Teach-in and IO-Link	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11120126	standard object detection	cable 4 pin, 2 m	NPN complementary	qTeach	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11135851	standard object detection	cable 4 pin, 2 m	NPN complementary	qTeach / 1-Step Teach-in	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11135852	standard object detection	connector M8 4 pin	NPN complementary	qTeach / 1-Step Teach-in	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11110453	standard object detection	connector M8 4 pin	NPN complementary	qTeach	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11120123	standard object detection	cable 4 pin, 2 m	PNP complementary	qTeach	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11135854	standard object detection	cable 4 pin, 2 m	PNP complementary	qTeach / 1-Step Teach-in	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11135855	standard object detection	connector M8 4 pin	PNP complementary	qTeach / 1-Step Teach-in	< 0,49 ms	90% ... 85% Sde	-
O300.SP-11110451	standard object detection	connector M8 4 pin	PNP complementary	qTeach	< 0,49 ms	90% ... 85% Sde	-
O300.SPT-11136905	transparency object detection	cable 4 pin, 2 m	push-pull	Teach-in and IO-Link	< 0,25 ms	100% ... 85% Sde	10 % / 20 % / 30 %
O300.SPT-11136906	transparency object detection	connector M8 4 pin	push-pull	Teach-in and IO-Link	< 0,25 ms	100% ... 85% Sde	10 % / 20 % / 30 %