

Diffuse sensors with background suppression

O500.GP

sample drawing



general data

type	background suppression
light source	pulsed PinPoint LED
sensing distance Tw	60 ... 400 mm
sensing range Tb	30 ... 400 mm
power on indication	LED green
light indicator	LED yellow
wave length	630 nm
suppression of reciprocal influence	yes
alignment optical axis	< 1°

electrical data

response time / release time	< 0,49 ms
voltage supply range +Vs	10 ... 30 VDC
current consumption max. (no load)	40 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	18 mm
height / length	45 mm
depth	32 mm
type	rectangular
housing material	plastic (ASA, PMMA)
front (optics)	PMMA

ambient conditions

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

sample picture



Diffuse sensors with background suppression

O500.GP

order reference	connection types	output circuit	sensing distance adjustment
O500.GP-11096067	cable 4 pin, 2 m	push-pull	qTeach / external
O500.GP-11096064	connector M12 4 pin	push-pull	qTeach / external
O500.GP-11125084	cable 4 pin, 2 m	push-pull	Teach-in and IO-Link
O500.GP-11125079	connector M12 4 pin	push-pull	Teach-in and IO-Link
O500.GP-11096069	cable 4 pin, 2 m	NPN complementary	qTeach
O500.GP-11135857	cable 4 pin, 2 m	NPN complementary	qTeach / 1-Step Teach-in
O500.GP-11135859	connector M12 4 pin	NPN complementary	qTeach / 1-Step Teach-in
O500.GP-11096066	connector M12 4 pin	NPN complementary	qTeach
O500.GP-11096068	cable 4 pin, 2 m	PNP complementary	qTeach
O500.GP-11135861	cable 4 pin, 2 m	PNP complementary	qTeach / 1-Step Teach-in
O500.GP-11135862	connector M12 4 pin	PNP complementary	qTeach / 1-Step Teach-in
O500.GP-11096065	connector M12 4 pin	PNP complementary	qTeach