

PT190420
LASER SENSORS • DIFFUSE REFLECTION SENSORS WITH BACKGROUND SUPPRESSION

sensor laser, diffuse-reflection sensor, 50x50x17mm, Sn: 50-300, 10-30V DC, 2x PNP NC/NO, Connector M12 4pin, IP67, Plastic ABS+PMMA, 2.5kHz, Background suppression, Laser diode, red light, Point, Manual adjustment


MECHANICAL FEATURES

Ambient temperature	-20 °C ... 45 °C
Degree of protection (IP)	IP67
Design	Cuboid
Housing material	Plastic ABS
Material of optical surface	PMMA
Reflector included in the scope of delivery	-
Sensor height	50 mm
Sensor length	50 mm
Sensor width	17 mm
Volume	Medium

ELECTRICAL FEATURES

Adjustment range	50 mm ... 300 mm
Analog output 0 mA ... 20 mA	-
Analog output 0 V ... 10 V	-
Analog output -10 V ... +10 V	-
Analog output 4 mA ... 20 mA	-
Decay time	0.2 ms
Interference suppression	+
Laser power	0.4 mW
Max. switching distance	300 mm
No-load current	50 mA
Number of pins	4
Number of switching outputs	2
Operating voltage	10 V ... 30 V
Rated switching current	200 mA
Rated switching distance	300 mm
Reaction time	0.2 ms
Response time	0.2 ms
Reverse polarity protection	+
Scanning function	Light-/dark-on mode
Sensing range	50 mm ... 300 mm
Setting procedure	Manual adjustment

ELECTRICAL FEATURES

Short-circuit protection	+
Switching frequency	2500 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage drop	2.4 V
Voltage type	DC
With LED display	+
With LED display (operation)	+
With LED display (signal)	+
With LED display (soiling)	+
With other analog output	-

OPTICAL FEATURES

Light source	Laser diode, red light
Light spot	3 mm ²
Wavelength of the sensor	650 nm
Triangulation	Background suppression
Light beam form	Point
Background suppression	+
Laser class	EV006626

Other

Packaging dimensions	60mm x 30mm x 91.0mm
Shipping weight	0.04kg
Tariff code	85365019

Classification

ipf product group	160
eClass 8.0	27270904
eClass 9.0	27270904
eClass 9.1	27270904
ETIM-5.0	EC002719
ETIM-6.0	EC002719
ETIM-7.0	EC002719

Connection



