

## Features

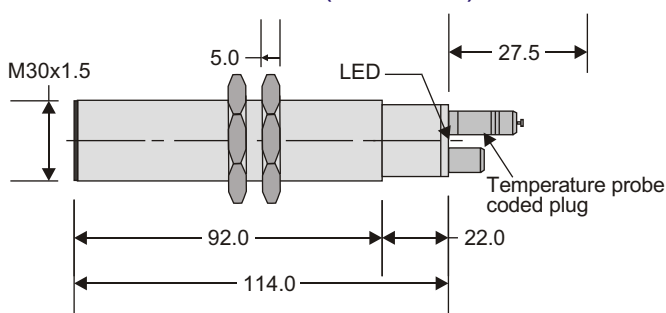
- Parameterisation interface for the application-specific adjustment of the sensor setting via the service program
- Current and voltage output
- Synchronisation options
- Adjustable acoustic power and sensitivity
- Temperature compensation



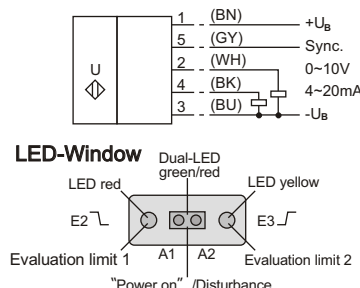
## Specifications

Type		PP-M30-2000
General specifications	Sensing range	80 ~ 2000mm
	Adjustment range	120 ~ 2000mm
	Unusable area	0 ~ 80mm
	Standard target plate	100 x 100mm
	Transducer frequency	Approx. 180 KHz
	Response delay	65 ms minimum; 195ms factory setting
Indicators/ operating means	LED green	Permanent : Power-on Flashing : Standby mode or TEACH-IN function object detected
	LED yellow1	Permanent : object in evaluation range Flashing : TEACH-IN function
	LED yellow2	Permanent : object in detection range Flashing : TEACH-IN function
	LED red	Permanent : Temperature/TEACH-IN plug not connected Flashing : fault or TEACH-IN function object not detected
Electrical specifications	Operating voltage	10 ~ 30VDC, ripple 10% ss
	Power consumption	900 mW
Interface	Interface type	RS 232, 9600 Bit/s, no parity, 8 data bits, 1 stop bit
Input/Output	Synchronisation	bi-directional 0-level: $-U_B \sim +1V$ ; 1-level: $+4V \sim +U_B$ input impedance: $> 12K\Omega$ synchronisation pulse: 100 $\mu s$ , synchronisation interpulse period: 2ms
Synchronisation frequency	Common mode operation	30Hz
	Multiplex operation	30/n Hz, n = number of sensors
Output	Output type	1 current output 4 ~ 20 mA; 1 voltage output 0 ~ 10 V
	Deviation of the characteristic curve	0.2 % of full-scale value
	Repeat accuracy	0.1% of full-scale value
	Resolution	evaluation range [mm]/4000, but 0.35mm
	Load impedance	current output: 500 Ohm; Voltage output: 1000 Ohm
	Temperature influence	2 % from full-scale value (with temperature compensation) 0.2 %/K (without temperature compensation)
Mechanical specifications	Protection degree	IP 65
	Connection type	connector (M12x1), 5 pin
Material	Housing	Stainless steel 1.4303; Plastic parts PBT
	Transducer	Epoxy resin/hollow glass sphere mixture; polyurethane foam
Ambient conditions		Ambient temperature : -25 ~ 70 ; Storage temperature : -40 ~ 85
Mass		170 g

## Dimensions (Unit:mm)



### Standard symbol/Connection :



### RS-232 connection :

