diffuse reflection laser sensor with background suppression

design	**20 x 44 x 25mm**

sensing range	adjustable	**25 ... 35mm**
		35 … 65mm
		65 … 135mm

✓ **solid aluminum housing**
✓ **configurable external input**
✓ **very small beam diameter**
✓ **excellent linearity**
✓ **switching output with window function**
✓ **analog output**

LCD-display
easy-to-use navigation
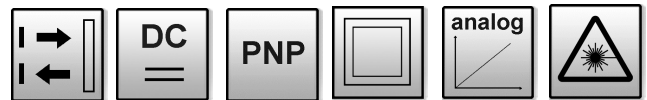
technical data	PT440300	PT440301	PT440302
operating range	25 … 35mm	35 … 65mm	65 … 135mm
beam diameter	~50µm	~70µm	~120µm
repeat accuracy	~10µm	~30µm	~70µm
operating voltage	12 … 24V DC ±10%		
output current	max. 50mA		
current consumption (without load)	max. 40mA at 24V DC / max. 60mA at 12V DC		
response time	selectable 1.5ms / 5ms / 10ms		
transmitting element / wavelength	laser / 655nm		
linearitiy	±0.1% of scale end value		
temperature dependency	0.03% of scale end value / ℃		
output	pnp		
output function	normally open / normally closed selectable		
analog output	0 … 5 V		
degree of protection (EN 60529)	IP 67		
air humidity	35 to 85% relative air humidity		
ambient illumination	incandescent light: max 3000ℓx		
operating temperature	-10℃ ... +45℃		
storage temperature	-20℃ ... +60℃		
connection	cable 2m, 5 x 0.2mm², shielded		
housing material	aluminum diecast		
front screen material	acrylic		

connection
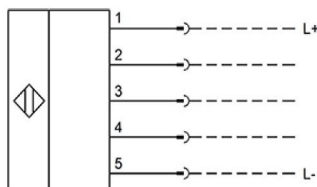
wire colors:
1	L+	br	brown
2	ext. input	rs	pink
3	pnp/npn, no/nc	bk	black
4	analog output 0-5v DC	gr	grey
5	L-	bl	blue

mounting

M3 screws

design of mounting hole

37mm

18mm
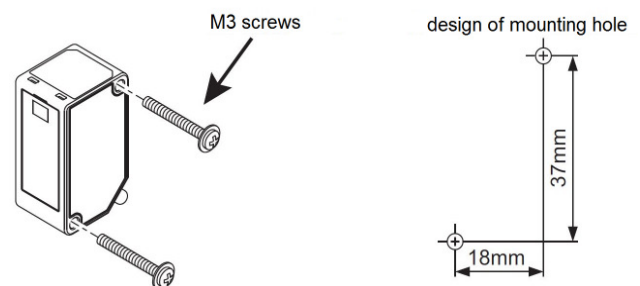
Warning: Never use this devices in applications where the safety of a person depends on their functionality.

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