

With Balluff inductive distance sensors it's easy to position, sense distances or material variations.

Applications

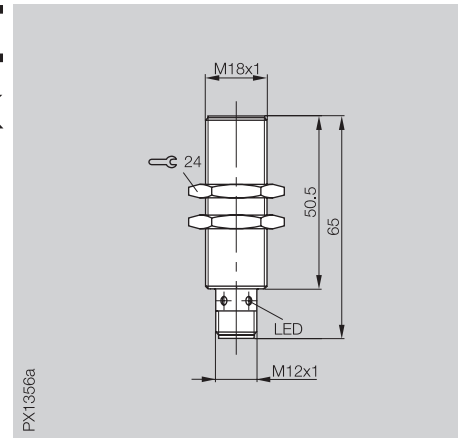
A few examples of the many possible uses:

- Distance sensing (even at high traverse speeds)
- Thickness measurement of films, sheet metal
- Belt center measurement
- Measuring the width of metal strips
- Detecting waviness
- Counting
- Positioning
- Position checking
- Clamping status detection
- Selection of various sizes and materials

Features

- Non-contacting, absolute measuring principle
- Distance-proportional IO-Link output signal
- High repeat accuracy
- Optimal linearity
- Low temperature drift
- Measuring speed up to 40 m/s
- LED for restricting the working range
- Insensitive to contamination

Housing size	M18x1
Output signal	IO-Link
Installation type	flush
Linear range s_i	1...5 mm



Ordering code	BAW M18MI-BLC50B-S04G
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Supply voltage U_s	18...30 V DC
Ripple	$\leq 15\%$ of U_b
Rated insulation voltage U_i	250 V AC
Rated distance s_e	3 mm
Load resistance R_L	$\geq 2\text{ k}\Omega$
Load resistance R_T	
No-load current I_0 at U_b	$\leq 10\text{ mA}$
Polarity reversal protected	yes
Short circuit protected	yes

Ambient temperature range T_a	$-10...+70\text{ }^\circ\text{C}$
Repeat accuracy R_{EWN}	$\pm 8\text{ }\mu\text{m}$
Non-linearity	$\leq \pm 120\text{ }\mu\text{m}$
Measuring speed	$\leq 40\text{ m/s}$
Response time	2 ms
Temperature coefficient TC	typ. $-2\text{ }\mu\text{m/K}$
in optimal range	min. $+1\text{ }\mu\text{m/K}$
of $+10...+50\text{ }^\circ\text{C}$	max. $-8\text{ }\mu\text{m/K}$

Enclosure rating per IEC 60529	IP 67
Degree of protection	\square
Housing material	CuZn nickel plated
Material of sensing face	PBT
Connection type	Connector
Recommended connector	BKS- 19/BKS- 20
Display	Out of Range

IO-Link	
Mode	COM 2
Baud rate	38.4 Kbaud
Value range	0000 H...03FF H

