



Robust speed sensors – for the first time with ATEX approval and IO-Link



Speed sensors



Robust M30 metal housing, no additional impact protection housing required

ATEX approval group II, category 3D

Ideal in combination with a PLC

Flush installation

Detect actual speed and set parameters via IO-Link









Compact speed monitoring

The new speed sensors are the compact solution for speed monitoring because the evaluation electronics are integrated in the sensor housing.

The limit at the speed of which the output switches is set via a potentiometer or IO-Link. Both rotary and linear movements can be monitored for overspeed, underspeed and blockage.

As compared to its predecessors, these new sensors feature a robust metal housing for flush mounting. A special version with ATEX approval is available for which no additional impact protection is required.



Operating voltage [V]	Start-up-delay [s]	Ambient temperature [°C]	Max. load current [mA]	ATEX approval	Order no.		
M30 x 1.5 inductive sensor · connection cable							
24 DC	15	-2580	250 DC (80 °C)	-	DI5026		
24 DC	15	-2560	250 DC (60 °C)	Group II, category 3D	DI523A		

Applications

Especially in the field of conveying technology the compact speed sensors can be used for various applications, for example for monitoring belt conveyors or bucket elevators. Here they are typically used to monitor underspeed, blockage or standstill.

Advantages

The speed sensors incorporate the complete speed monitoring. The switch point can be set using a multiturn potentiometer.

IO-Link provides additional functions such as remote information about the current speed or the switch point and the configuration of important additional parameters such as the start-up delay time.

This allows direct communication with the controller or the SMARTOBSERVER.

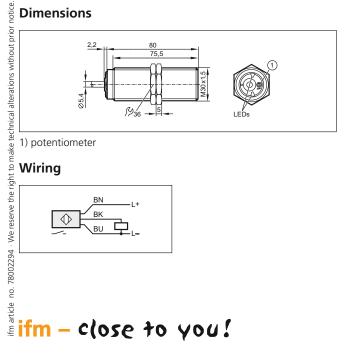
Operation

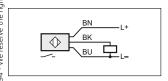
The integrated sensor is damped by passing cams or other metallic targets. The evaluation unit determines the period duration or the frequency (actual rotational speed value) on the basis of the time interval between damping and compares it to the set switch point (preset value).

The output is switched during the start-up delay and when the rotational speed exceeds the set switching value.

An LED signals underspeed and switch-off of the output.

Dimensions





Further technical data					
Setting range	[pulses/min]	53600			
Switch point setting		Multiturn potentiometer			
Protection rating		IP 65, IP 67			
Protection class		II			
Switching status indication	LED	2 x yellow			
Housing materials		Brass special coating; PA (Polyamid); TPE-U			
Connection		PUR cable, 2m			

Accessories

Туре	Description	Order no.
1	Clamp with damping cams	E89013
	Target wheel	E89010
00	Angle bracket for M30 types	E10737
0	Lock nuts, nickel-plated brass Lock nuts, high-grade stainless steel (316Ti/1.4571)	E10030
T O	Mounting set, free-standing M12 clamp mounting, Ø 30.2 mm Mounting set, aluminium profile clamp mounting, Ø 30.2 mm	E20873
0.10	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s)	E30390
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011