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IN CHARGE OF SPEED



**OPERATING INSTRUCTIONS** 

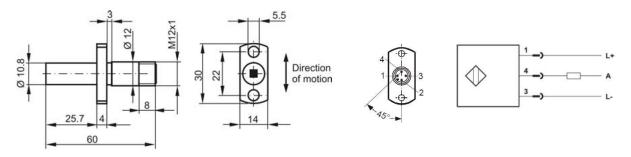
## Single Channel Hall Effect Speed Sensor **D12A-H2**



## **Product ID**

	Canaan Tama	Don't No. (and an 1-)	Duaning No.				
	Sensor Type	Part Nr. (order code)	Drawing Nr.				
	D12A-H2	D12A-H2 90165 90165-01					
General							
Function	The D12A-H2 Hall speed sensor (PN.:90165) is designed according to Hall Effect principle. It is used to detect the rotary speed of machinery especially for winding head of the textile machinery. The sensor output two differential pulse frequency signals which is proportional to rotary speed, Max. detectable frequency up to 20kHz. The sensor housing is designed with 100% sealing one part structure. The flange designed housing is used for the orientation mounting.						
Technical data							
Supply voltage	102430V DC (with reverse polarity proof and transient over voltage proof)						
Current consumption	≤10mA (without load), ≤50mA (with load)						
Signal output	Push pull output, with short circuit proof						
	$U_{high}>18V$ , @24V $U_{supply}$ , $R_L=1k\Omega$ , $U_{low}<2.5V$						
Frequency range	5Hz ~ 20kHz						
Housing	Brass						
Operating temp. range	-40°C+125°C						
Air gap	0.31.3mm for module 1 target						
	0.31.8mm for module 2 target						
	0.32.4mm for module 3 target						
	0.32.5mm for module 4 target						
IP class	IP68(sensor head), IP67(connector)						
Insulation	Housing and channel galvantically separated, 500V/AC/1min						
Vibration immunity	5g, 52000Hz						
Shock immunity	50g, 20ms, half sine	50g, 20ms, half sine wave					
Connector	M12x1, 4 pins, black						
Storage	In dry environment,	In dry environment, temp. range same as operating temp range.					

## **Product Drawing and connection definition:**



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