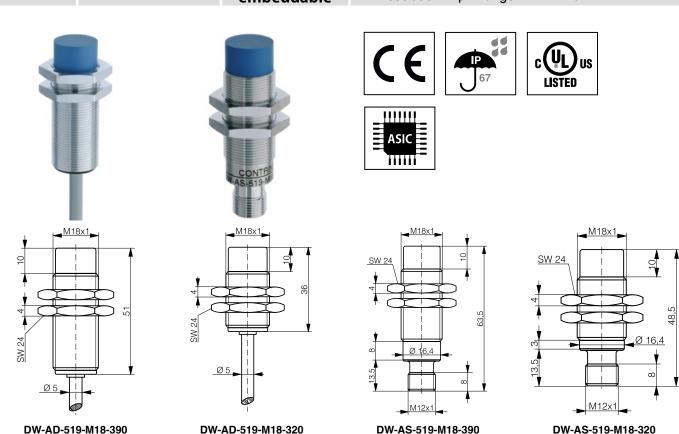


ANALOG OUTPUT DW-Ax-519-M18-3x0

HOUSING	OPERATING DISTANCE	MOONTING	✓ Long sensing range✓ Outstanding accuracy and	✓	Exceptional price perfmance ratio
M18	20 mm	Non- embeddable	temperature stability ✓ Current/voltag ✓ Resolution in µm range ✓ IP67	Current/voltage output IP67	



DETECTION DATA		INTERFACE	
Sensing distance (S _d)	20 mm	IO-Link	×
Repeat accuracy *	± 0.2 mm	MTTF (@40°C)	551 y
Static resolution** (@0.67·S _d)	≤ 0.62 µm		
Dynamic resolution* (@0.67.S _d)	≤ 1.9 µm		
Temperature drift on output signal***	≤± 10%		
Standard target	60 x 60 x 1 mm³, FE360		

^{*}Measured under 3σ confidence level (99.7%) at 0.67 Sd, constant temperature and constant voltage supply.

^{**}Static resolution is measured filtering the signal at 20 Hz. Dynamic resolution is measured filtering the signal at 1 kHz.
***Over time a temperature drift of up to 10% can occur on the sensor, so regular calibration is recommended, depending on the application.

ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U _B)	1530 VDC	Mounting	Non-embeddable
Residual ripple	\leq 20% U_B	Housing material	Chrome-plated brass
Power consumption (no-load)	≤ 15 mA	Sensing face material	PBTP
Max. load at voltage output	≤ 15 mA	Max tightening torque	25 Nm
Max. load at current output	0.4 k Ω (Ub=15V) / 1k Ω (Ub=30V)	Ambient operating temperature	-25+70°C¹
Bandwidth	250 Hz	Enclosure rating	IP 67
Time delay before availability	20 ms	Weight (cable / connector)	see page 2
Recovery time	20 ms	Shock and vibration	IEC 60947-5-7
Warm-up time (temperature stability)	5 min		
Short-circuit protection	✓		
Voltage reversal protection	✓		
Cable length max.	< 300 m		

Note: all data measured according to IEC 60947-5-2 standard with U_g = 20 ... 30VDC, T_a =23°C \pm 5°C.

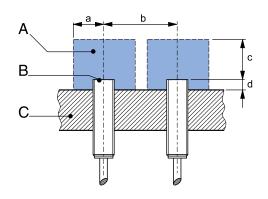
¹Maximum temperature according to UL: 70°C.

CORRECTION FACTORS Steel FE 360 1 Copper 0.34 Aluminum 0.38 Brass 0.48 Stainless S. V2A 1 / 2 mm 0.74

Note: the operating distance of the sensor must be multiplied by the correction factor of the material. For example, the operating distance on Aluminum is $S_{n,Al} = S_n \times CF_{Al} \times CF_{Al}$. In case of embeddable mounting, the distance is multiplied by the additional correction factor of the support, thus $S_{n,Al} = S_n \times CF_{Al} \times CF_{emb,Al}$.

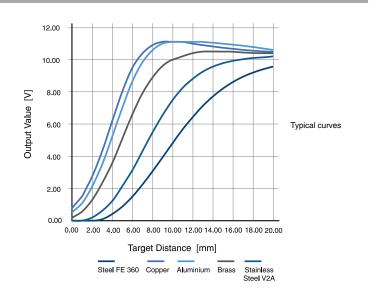
INSTALLATION CONDITIONS

RESPONSE DIAGRAM



d: steel 20 mm

Note: additional installation information can be found in the glossary of the Contrinex General Catalog.



Output voltage	s = 0	0 V / -0.0 + 0.4 V
	$s = S_d/2$	$5.2 \text{ V} \pm 0.4 \text{ V}$
	$s = S_d$	$10.0 \text{ V} \pm 0.4 \text{ V}$
	s > 3*S _d	10.0 ± 0.2 V

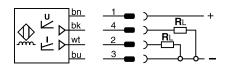
Output	s = 0	$4 \text{ mA} \pm 0.8 \text{ mA}$	
	$s = S_d/2$	$12.3 \text{ mA} \pm 0.8 \text{ mA}$	
current	$s = S_d$	$20 \text{ mA} \pm 0.8 \text{ mA}$	
Current	s > 3*S _d	$2023 \text{ mA} \pm 0.8$	
		mA	

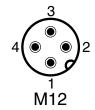
WIRING DIAGRAM

330-020-400

PIN ASSIGNMENT

0...10 V





56 g

AVAILABLE TYPES Part number Connection Output on pin 2/wh Output on pin 4 / bk Part reference Weight 330-020-391 DW-AD-519-M18-320 PUR, 2 m, 4 wire 0...10 V 4...20 mA 115 a 4...20 mA 0...10 V 330-020-392 DW-AD-519-M18-390 PUR, 2 m, 4 wire 130 a DW-AS-519-M18-320 4...20 mA 0...10 V 330-020-399 M12 4-pin 49 a

4...20 mA

Note: part reference may include additional suffix to indicate a revision version or special version. Further information is available on request.

M12 4-pin

Product warranty is contingent upon professional use and proper installation of the product in applications for which the product was intended for, namely systems of automated manufacturing processes (factory automation). The warranty does not cover products that were modified, that have expired or that were subjected to physical, environmental, chemical or electrical stress, beyond their original design specifications. This product is not a safety component as defined by IEC-61508, ISO 13489 or other international safety standards. The manufacturer does not guarantee product performance in specific applications and does not warrant specifications in case of significant recurring temperature cycling. Terms of delivery and rights to change design reserved. All rights reserved.

DW-AS-519-M18-390