

Induktive Sensoren DéTECTeurs inductifs Inductive sensors DW - A□ - 509 - M18 - 3□0



Durchmesser Diamètre Diameter	M18	Schaltabstand Portée Operating distance	0...10 mm	Einbau Montage Mounting	quasi-bündig quasi-noyable quasi-embeddable
-------------------------------------	------------	---	------------------	-------------------------------	--

Ausführung mit Analogausgang

Wichtigste Eigenschaften:

- Erfassungsbereich 0 ... 10 mm
- Betriebsspannung 15...30 VDC
- Spannungsausgang 0 ... 10 V
- Stromausgang 4 ... 20 mA
- Kurzschlusschutz, Induktionsschutz, Verpolungsschutz eingebaut
- Nicht linearisierte Ausführung
- Anschluss über Kabel oder Stecker S12

Appareil à sortie analogique

Caractéristiques principales:

- Domaine de détection 0 à 10 mm
- Tension de service 15 ... 30 VDC
- Tension de sortie 0 à 10 V
- Courant de sortie 4 à 20 mA
- Protections contre les courts-circuits, les surtensions induites et l'inversion de tension incorporées
- Version non linéarisée
- Versions câble ou connecteur S12

Device with analog output

Main features:

- Sensing range 0 to 10 mm
- Supply voltage 15 ... 30 VDC
- Output voltage 0 to 10 V
- Output current 4 to 20 mA
- Protections against short-circuits, induced overvoltages and voltage reversal built-in
- Non-linearized version
- Cable and S12 connector versions

Technische Daten:

(gemäss IEC 60947-5-2)

Caractéristiques techniques:

(selon CEI 60947-5-2)

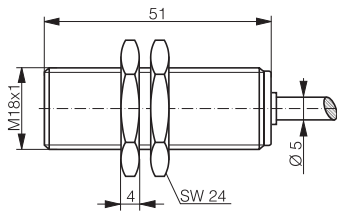
Technical data:

(according to IEC 60947-5-2)

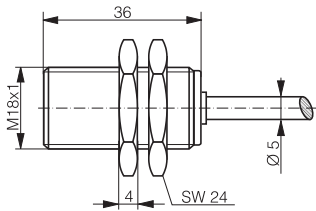
Erfassungsbereich s_d	Domaine de détection s_d	Sensing range s_d	0 ... 10 mm								
Normmessplatte	Cible normalisée	Standard target	30 x 30 x 1 mm								
Wiederholgenauigkeit (gemäss IEC 60947-5-2)	Reproductibilité (selon CEI 60947-5-2)	Repeat accuracy (according to IEC 60947-5-2)	0,3 mm ($U_B = 20 \dots 30$ VDC, $T_A = 23 \text{ °C} \pm 5 \text{ °C}$)								
Wiederholgenauigkeit ($T_A = \text{konstant}$)	Reproductibilité ($T_A = \text{constant}$)	Repeat accuracy ($T_A = \text{constant}$)	$\pm 0,02$ mm								
Auflösung	Résolution	Resolution	$\leq 2 \mu\text{m}$								
Betriebsspannungsbereich U_B	Tension de service U_B	Supply voltage range U_B	15 ... 30 VDC								
Zulässige Restwelligkeit	Ondulation admissible	Max. ripple content	$\leq 20\% U_B$								
Ausgangsspannung an A1	Tension de sortie à A1	Output voltage at A1	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td>$s = 10$ mm</td> </tr> <tr> <td>$s > 10$ mm</td> <td>$s > 10$ mm</td> </tr> </table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm	$s = 10$ mm	$s > 10$ mm	$s > 10$ mm
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm	$s = 10$ mm										
$s > 10$ mm	$s > 10$ mm										
			<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">$s = 0$ mm</td> <td style="width: 50%;">$s = 0$ mm</td> </tr> <tr> <td>$s = 5$ mm</td> <td>$s = 5$ mm</td> </tr> <tr> <td>$s = 10$ mm</td> <td></td></tr></table>	$s = 0$ mm	$s = 0$ mm	$s = 5$ mm	$s = 5$ mm	$s = 10$ mm			
$s = 0$ mm	$s = 0$ mm										
$s = 5$ mm	$s = 5$ mm										
$s = 10$ mm											

Abmessungen / Dimensions / Dimensions:

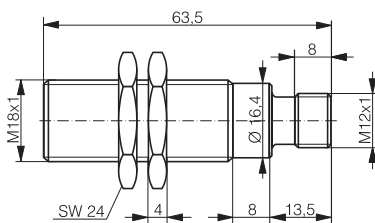
Diese Zeichnungen lassen sich aus dem Internet (www.contrinex.com) herunterladen.
Ces dessins peuvent être téléchargés depuis Internet (www.contrinex.com).
These drawings can be downloaded from Internet (www.contrinex.com).



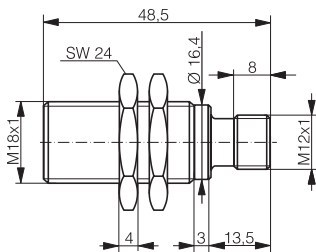
DW-AD-509-M18-390



DW-AD-509-M18-320



DW-AS-509-M18-390



DW-AS-509-M18-320

Ansprechkurve* / Courbe de réponse* / Response diagram*:

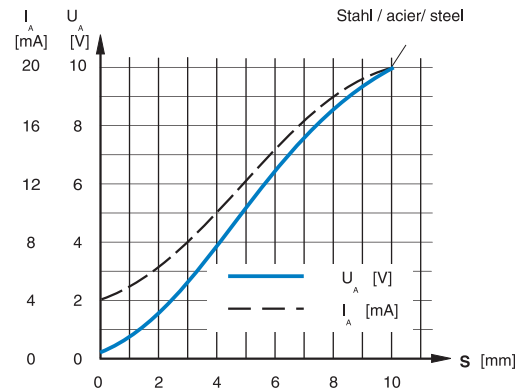


Fig. 2: Temperaturminderung / Réduction de température / Temperature derating

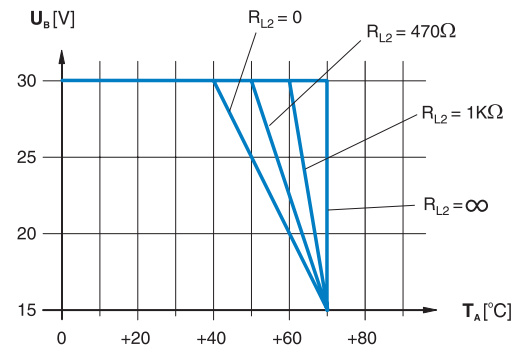
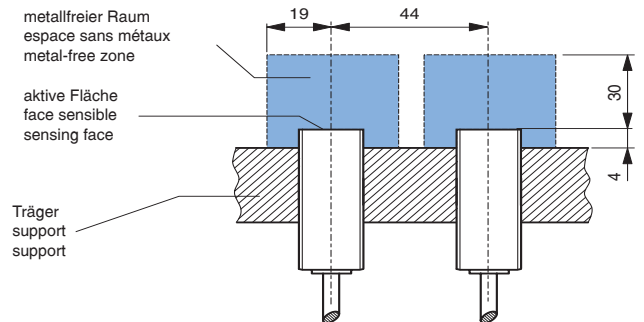


Fig. 3: Einbau / Montage / Installation



* typische Werte / valeurs typiques / typical values

Reduktionsfaktoren für Messplatte aus* / Coefficients de réduction pour cible en* / Correction factors for target of*:

Stahl FE 360	1,0	Kupfer	0,15	Aluminium	0,18	Messing	0,28	Edelstahl V2A	0,60
Acier FE 360		civre		aluminium		laiton		acier INOX V2A	
Steel FE 360		copper		aluminum		brass		stainless steel V2A	

Typenspektrum / Types disponibles / Available types:

Artikelnummer Numéro d'article Part number	Typenbezeichnung désignation type reference	Anschluss raccordement connection	Ausgang sortie output
320 020 116	DW-AD-509-M18-390	Kabel / câble / cable	Spannung und Strom / tension et courant / voltage and current
320 020 105	DW-AS-509-M18-390	Stecker / connecteur / connector	Spannung und Strom / tension et courant / voltage and current
320 020 121	DW-AD-509-M18-320	Kabel / câble / cable	Spannung und Strom / tension et courant / voltage and current
320 020 122	DW-AS-509-M18-320	Stecker / connecteur / connector	Spannung und Strom / tension et courant / voltage and current

Der Einsatz dieser Geräte in Anwendungen, wo die **Sicherheit von Personen** von deren Funktion abhängt, ist **unzulässig**. Änderungen und Liefermöglichkeiten vorbehalten. Ces détecteurs **ne peuvent être utilisés** dans des applications où la **protection** ou la **sécurité de personnes** est concernée. Sous réserve de modifications et de possibilités de livraison. These proximity switches **must not be used** in applications where the **safety of people** is dependent on their functioning. Terms of delivery and rights to change design reserved.