

Proximity Switches, inductive Näherungsschalter, induktiv

- ▶ **High temperature proof versions up to 180 °C | 356 °F**
Hochtemperaturfeste Ausführungen bis 180 °C



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.2 V @ 200 mA
Switching indicator	on request
Operating temperature	-20... °C -4... °F
IP code	IP67

Annotation:

To simplify mechanical setup, all high temperature proximity switches up to 150 °C can optionally be equipped with a LED to indicate the status of the switching output. High temperature can damage permanently this LED. However, the failure of the LED does not affect the function of the device.

A failure of the LED is no warranty case.

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Eigenstromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,2 V @ 200 mA
Schaltanzeige	auf Anfrage
Betriebstemperatur	-20... °C
Schutzart	IP67



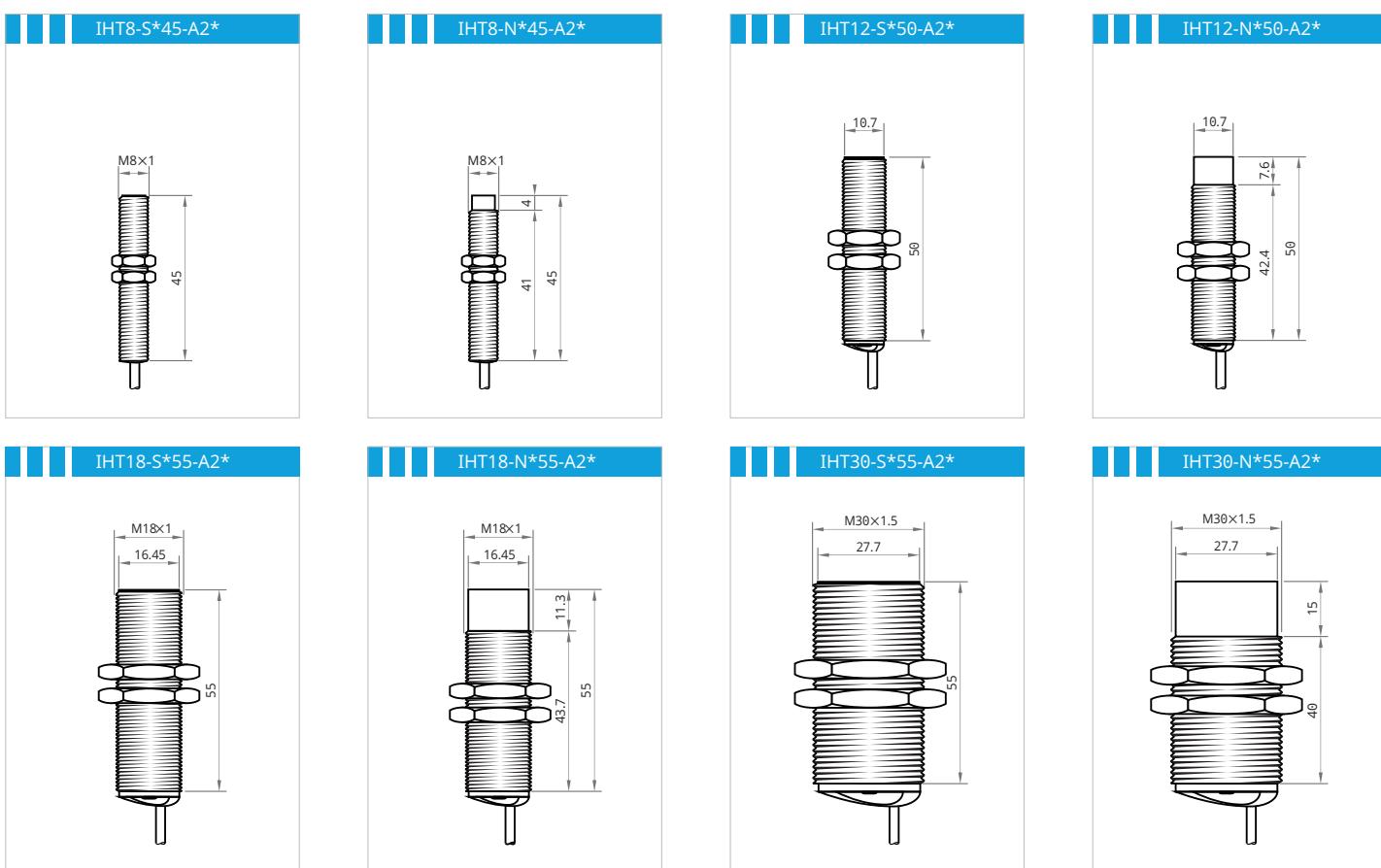
Anmerkung:

Zur Erleichterung der mechanischen Einrichtung können optional alle Hochtemperatur-Näherungsschalter bis 150 °C mit einer LED zur Anzeige des Schaltzustands ausgerüstet werden. Hohe Temperaturen werden diese LED ggf. dauerhaft schädigen. Der Ausfall der LED hat jedoch keinen Einfluss auf die Funktion des Gerätes.
Ein Ausfall der LED ist kein Garantiefall.

High Temperature · Hochtemperatur

	Mounting Montage	S_n [mm]	Connection Anschluss	Temperature · Temperatur [permanent]				Output load capability Ausgangsbelastbarkeit
				120 °C 250 °F	150 °C 300 °F	180 °C 355 °F		
M8×1	●	2	Cable 2 m, silicone	IHT8-S2APO45-N2S	IHT8-S2BPO45-N2S			<120 mA
			Cable, 2 m, PTFE	IHT8-S2APO45-N2T	IHT8-S2BPO45-N2T			<120 mA
	○	4	Cable 2 m, silicone	IHT8-N4APO45-N2S	IHT8-N4BPO45-N2S			<120 mA
			Cable, 2 m, PTFE	IHT8-N4APO45-N2T	IHT8-N4BPO45-N2T			<120 mA
M12×1	●	2	Cable 2 m, silicone	IHT12-S2APO50-N2S	IHT12-S2BPO50-N2S			<120 mA
			Cable, 2 m, PTFE	IHT12-S2APO50-N2T	IHT12-S2BPO50-N2T			<120 mA
	○	4	Cable 2 m, silicone	IHT12-N4APO50-N2S	IHT12-N4BPO50-N2S			<120 mA
			Cable, 2 m, PTFE	IHT12-N4APO50-N2T	IHT12-N4BPO50-N2T			<120 mA
	●	4	Cable 2 m, silicone	IHT12-S4APO50-N2S	IHT12-S4BPO50-N2S			<120 mA
			Cable, 2 m, PTFE	IHT12-S4APO50-N2T	IHT12-S4BPO50-N2T			<120 mA
M18×1	○	8	Cable 2 m, silicone	IHT12-N8APO50-N2S	IHT12-N8BPO50-N2S			<120 mA
			Cable, 2 m, PTFE	IHT12-N8APO50-N2T	IHT12-N8BPO50-N2T			<120 mA
	●	5	Cable 2 m, silicone	IHT18-S5APO55-N2S	IHT18-S5BPO55-N2S	IHT18-S5CPO55-N2S		<150 mA
			Cable, 2 m, PTFE	IHT18-S5APO55-N2T	IHT18-S5BPO55-N2T	IHT18-S5CPO55-N2T		<150 mA
M30×1.5	○	8	Cable 2 m, silicone	IHT18-N8APO55-N2S	IHT18-N8BPO55-N2S	IHT18-N8CPO55-N2S		<150 mA
			Cable, 2 m, PTFE	IHT18-N8APO55-N2T	IHT18-N8BPO55-N2T	IHT18-N8CPO55-N2T		<150 mA
	●	10	Cable 2 m, silicone	IHT30-S10APO55-N2S	IHT30-S10BPO55-N2S	IHT30-S10CPO55-N2S		<150 mA
			Cable, 2 m, PTFE	IHT30-S10APO55-N2T	IHT30-S10BPO55-N2T	IHT30-S10CPO55-N2T		<150 mA
	○	15	Cable 2 m, silicone	IHT30-N15APO55-N2S	IHT30-N15BPO55-N2S	IHT30-N15CPO55-N2S		<150 mA
			Cable, 2 m, PTFE	IHT30-N15APO55-N2T	IHT30-N15BPO55-N2T	IHT30-N15CPO55-N2T		<150 mA

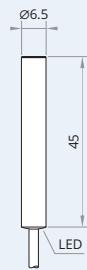
Order codes are for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Bestellnummern für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.



IHTD6-S2APO45-A2S

Inductive Proximity Switch 3-Wire DC High Temperature Resistant Sensing range: Standard

Housing size	Ø 6.5 mm
Mounting	flush
Sensing distance	2 mm
Operating voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<8 mA
Current load capability	125 mA
Output function	/ normally open
Output polarity	PNP
Short circuit protection	built-in, self-resetting
Voltage drop	<2V @ 120 mA
Switching frequency	500 Hz
Reduction factors	Alu 0.45 · Brs 0.50 · VA 0.85
Operating temperature	-20...+150 °C
Protection class	IP67
Sensing face material	PTFE
Housing material	SS 1.4301 (SAE 304)
Connection	silicone
Switching indicator	built-in*
Complies with	CE, RoHS



Maximum temperature: 120 °C

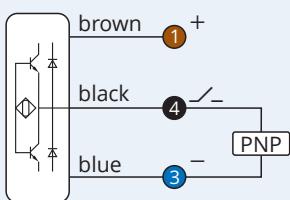
* Only for set-up. The LED may die if operated beyond 120 °C (249 °F). The LED is not covered by warranty.

25
months

Warranty Our products are manufactured to stringent ISO 9001 European standards to ensure that our customers only receive the best quality.



Wiring diagram



Caution! This device shall not be used if the safety of persons rely on its faultless function.

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Änderungen vorbehalten

IHT8-S2APO45-A2S

Inductive Proximity Switch 3-Wire DC High Temperature Resistant Sensing range: Standard

Housing size	M8x1
Mounting	flush
Sensing distance	2 mm
Operating voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<8 mA
Current load capability	125 mA
Output function	/ normally open
Output polarity	PNP
Short circuit protection	built-in, self-resetting
Voltage drop	<2V @ 120 mA
Switching frequency	500 Hz
Reduction factors	Alu 0.45 · Brs 0.50 · VA 0.85
Operating temperature	-20...+150 °C
Protection class	IP67
Sensing face material	PTFE
Housing material	SS 1.4301 (SAE 304)
Connection	silicone
Switching indicator	built-in*
Complies with	CE, RoHS



Maximum temperature: 120 °C

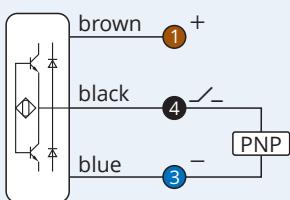
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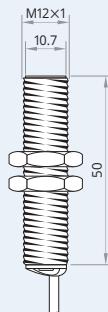
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www.crautomation.com

Änderungen vorbehalten

IHT12-S4BPO50-N2S

Inductive Proximity Switch
3-Wire DC
High Temperature Resistant
Sensing range: *Standard*

Housing size	M12x1
Mounting	flush
Sensing distance	4 mm
Operating voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<8 mA
Current load capability	85 mA
Output function	/ normally open
Output polarity	PNP
Short circuit protection	built-in, self-resetting
Voltage drop	<2V @ 120 mA
Switching frequency	500 Hz
Reduction factors	Alu 0.45 · Brs 0.50 · VA 0.85
Operating temperature	-20...+150 °C
Protection class	IP67
Sensing face material	PTFE
Housing material	SS 1.4301 (SAE 304)
Connection	silicone
Complies with	CE, RoHS



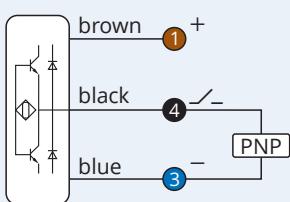
Maximum temperature: 150 °C

25
months

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