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Product overview

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NOTES



INDUCTIVE SENSORS ULTRA MINI

DESIGNATION CODE

Example: **K J 10 - M 30 M B 45 - D P S - V1 - X0000**

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12

1 = Working principle

A	Acoustic		
B	Acceleration sensor		
C	Capacitive		
D	Strain gauge sensor		
H	Hall-effect		
J	Inductive	JR	Inductive ring
		JF	Inductive surface
		JG	Inductive slot
		JD	Metalface
M	Magneto-resistive		
N	Inclination sensor		
R	Reed-contact		
W	Angle sensor		

2 = Switching distance / range

3 = Design

D	Ring housing
G	Cylindrical housing without thread
M	Cylindrical housing with metrical thread
Q	Square housing

4 = Housing diameter / edge length

5 = Housing material

A	Aluminium
E	Stainless steel
K	Plastic
M	Brass, nickel plated
T	PTFE

6 = Installation

B	Shielded
N	Non shielded

7 = Tube length

8 = Operating voltage

AZ	AC alternating current voltage
D	DC direct current voltage
VZ	AC/DC all voltages

9 = Type of output signal

AN	Analog	ANI	Current output
		ANU	Voltage output
CAN	CAN-bus interface		
N	NPN		
NA	Namur		
P	PNP		
Z	Two wire		

10 = Function

A	Changeover
I	Impulse output
Ö	N.C.
S	N.O.
U	Switchable

11 = Connection

V1	M8 screw-/snap-in
V2	M12 metal
V2/1	M12 plastic
V3	M5 metal
V4	Amphenol Tuchel
V6	Brad Harrison
V7	Valve connector type A
V8	M8 snap-in only
V9	Torson
V10	Valve connector type C
V11	AC connector 1/2" UNF
V12	M18 plastic
VE	Euchner connector
RS232	Data interface
PG	Thread joint PG
Mxx	Thread joint metrical

others as requested

12 = Additional marks

AM	Sensing face in centre
FE	Reduction 1 to steel / iron
HT	High temperature
NF	Reduction 1 to nonferrous metal
SF	Weld field immune
T	Enlarged temperature range
W	Angled sensing face / angled cable exit
X	Customized design with detailed description



INDUCTIVE SENSORS ULTRA MINI

CIRCUIT DIAGRAMS

Circuit diagram for	Cable / clamp connection	Connector V1 ... V9
DPS DC PNP N.O.		
DPÖ DC PNP N.C.		
DPA DC PNP changeover		
DPU DC NO/NC switchable		
DNS DC NPN N.O.		
DNÖ DC NPN N.C.		
DNA DC NPN changeover		
DNU DC NO/NC switchable		
NA Namur EN 60947-5-6		
DZS DC two-wire N.O.		
DZÖ DC two-wire N.C.		
AZS/VZS AC/DC two-wire N.O.		
AZÖ/VZÖ AC/DC two-wire N.C.		
Analog		



INDUCTIVE SENSORS ULTRA MINI

CYLINDER G3

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM
Connection	2m cable PUR 3 x 0,15mm ²

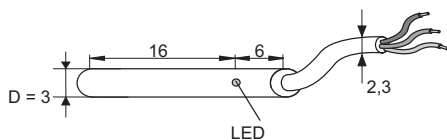


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal	Switching distance
08317803010	KJ0,6-G3EB22-DPS	PNP	0,6mm
08313030081	SJ0,8-G3EB22-DPS	PNP	0,8mm
08313030082	SJ0,8-G3EB22-DPÖ	PNP	0,8mm
08313030083	SJ0,8-G3EB22-DNS	NPN	0,8mm
08313030084	SJ0,8-G3EB22-DNÖ	NPN	0,8mm

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

CYLINDER M4

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_r	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$< 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM
Connection	2m cable PUR 3 x 0,15mm ²

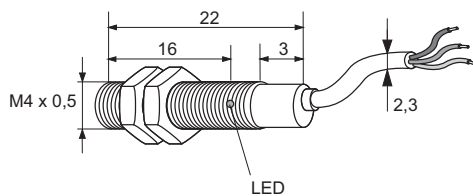


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal	Switching distance
08317801210	KJ0,6-M4EB-DPS	PNP	0,6mm
08313040085	SJ0,8-M4EB22-DPS	PNP	0,8mm
08313040086	SJ0,8-M4EB22-DPÖ	PNP	0,8mm
08313040087	SJ0,8-M4EB22-DNS	NPN	0,8mm
08313040088	SJ0,8-M4EB22-DNÖ	NPN	0,8mm

Dimensions



all data in mm



CYLINDER G4

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM



The drawings of these sensors are shown on the following page.

Selection chart

Article number	Designation standard	Output signal	Connection	Switching distance	Drawing (next page)
08317801010	KJ0,8-G4EB25-DPS	PNP	2m cable PUR 3 x 0,15mm ²	0,8mm	A
08317801110	KJ0,8-G4EB25-DNS	NPN	2m cable PUR 3 x 0,15mm ²	0,8mm	A
08317801064	KJ0,8-G4EB38-DPS-V1	PNP	connector M8 3-pole	0,8mm	A1
08316801164	KJ0,8-G4EB38-DNS-V1	NPN	connector M8 3-pole	0,8mm	A1
08313040120	SJ1-G4EB25-DPÖ	PNP	2m cable PUR 3 x 0,15mm ²	1mm	A
08313040130	SJ1-G4EB25-DNS	NPN	2m cable PUR 3 x 0,15mm ²	1mm	A
08313040140	SJ1-G4EB25-DNÖ	NPN	2m cable PUR 3 x 0,15mm ²	1mm	A
08313040131	SJ1-G4EB40-DNS-V1	NPN	connector M8 3-pole	1mm	A1
08313040141	SJ1-G4EB40-DNÖ-V1	NPN	connector M8 3-pole	1mm	A1
08313040161	SJ0,8-G4EB36-DPS-V3	PNP	connector M5 4-pole	0,8mm	B
	Designation angled				
08313040112	SJ1W-G4EB30-DPS	PNP	2m cable PUR 3 x 0,15mm ²	1mm	C
08313040113	SJ1W-G4EB40-DPS-V1	PNP	connector M8 3-pole	1mm	C1
	Designation double switching distance				
08313041510	SJ1,5-G4EB25-DPS	PNP	2m cable PUR 3 x 0,15mm ²	1,5mm	A
08313041530	SJ1,5-G4EB25-DNS	NPN	2m cable PUR 3 x 0,15mm ²	1,5mm	A
08313041511	SJ1,5-G4EB40-DPS-V1	PNP	connector M8 3-pole	1,5mm	A1
08313041531	SJ1,5-G4EB40-DNS-V1	NPN	connector M8 3-pole	1,5mm	A1

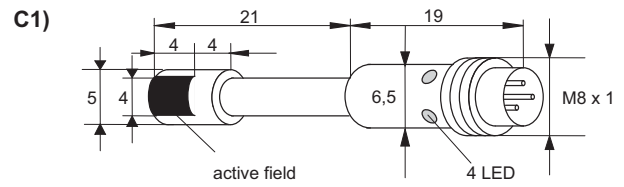
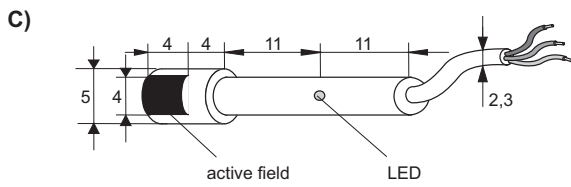
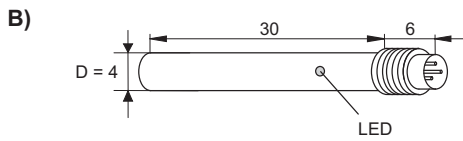
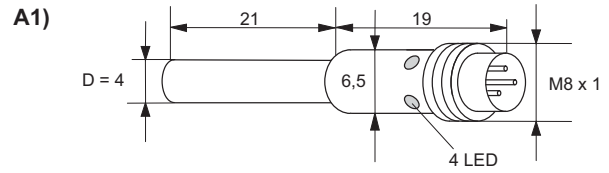
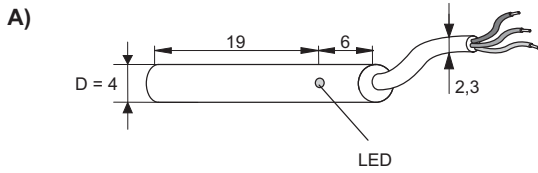
Other cable lengths and output configurations on request.



INDUCTIVE SENSORS ULTRA MINI

CYLINDER G4

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

CYLINDER M5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM (except SJ0,8... PCP)



The drawings of these sensors are shown on the following page.

Selection chart

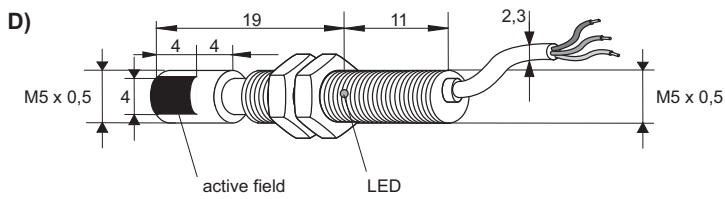
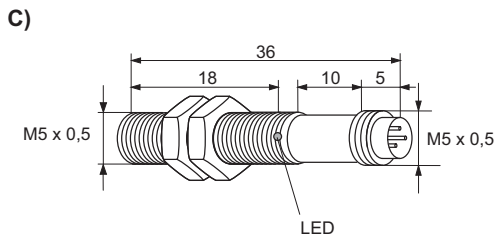
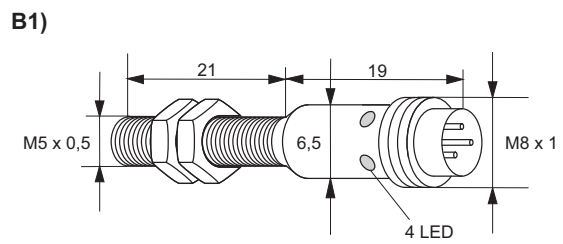
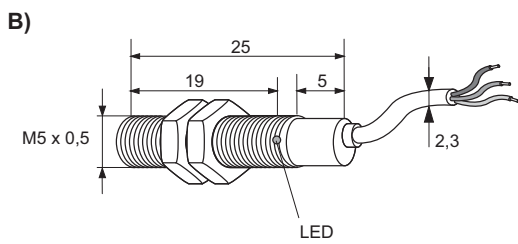
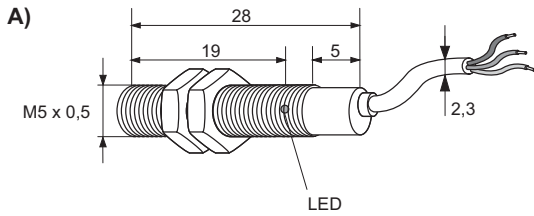
Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313050124	SJ0,8-M5EB28-DPÖ	PNP	0,8mm	2m cable PUR 3 x 0,15mm ²	A
08313050144	SJ0,8-M5EB28-DNÖ	NPN	0,8mm	2m cable PUR 3 x 0,15mm ²	A
08310000023	KJ0,8-M5EB25-DPS	PNP	0,8mm	2m cable PUR 3 x 0,15mm ²	B
08317802110	KJ0,8-M5EB25-DNS	NPN	0,8mm	2m cable PUR 3 x 0,15mm ²	B
08317802064	KJ0,8-M5EB38-DPS-V1	PNP	0,8mm	connector M8 3-pole	B1
08317802464	KJ0,8-M5EB38-DPÖ-V1	PNP	0,8mm	connector M8 3-pole	B1
08313050111	SJ1-M5EB40-DPS-V1	PNP	1mm	connector M8 3-pole	B1
08313050161	SJ0,8-M5EB36-DPS-V3	PNP	0,8mm	connector M5 4-pole	C
	Designation angled				
08313050112	SJ1W-M5EB30-DPS	PNP	1mm	2m cable PUR 3 x 0,15mm ²	D
	Designation double switching distance				
08313051590	SJ1,5-M5EB25-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	B
08313051597	SJ1,5-M5EB40-DPS-V1	PNP	1,5mm	connector M8 3-pole	B1

Other cable lengths and output configurations as requested.



CYLINDER M5

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

CYLINDER G5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_r	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Switching distance	1,5mm
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM
Connection	2m cable PVC 3 x 0,15mm ²

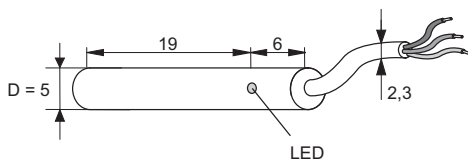


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal
08313050151	SJ1,5-G5EB25-DPS	PNP
08313050152	SJ1,5-G5EB25-DPÖ	PNP
08313050153	SJ1,5-G5EB25-DNS	NPN
08313050154	SJ1,5-G5EB25-DNÖ	NPN

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

CYLINDER G6,5

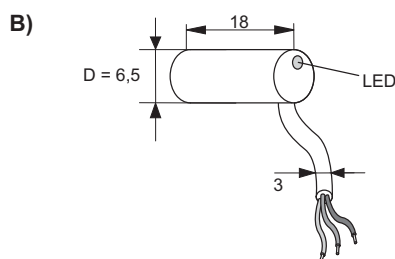
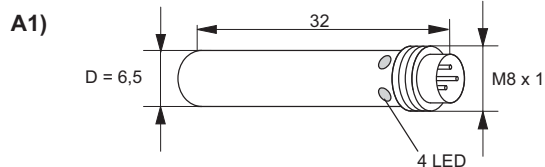
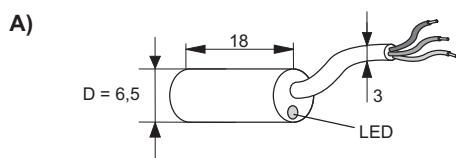
General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_r	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_o	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM



The selection chart for these sensors is shown on the following page.

Dimensions



all data in mm



CYLINDER G6,5

Selection chart

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (previous page)
08313650151	SJ1,5-G6,5EB18-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313650152	SJ1,5-G6,5EB18-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313650153	SJ1,5-G6,5EB18-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313650154	SJ1,5-G6,5EB18-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313651511	SJ1,5-G6,5EB32-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08313651521	SJ1,5-G6,5EB32-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313651531	SJ1,5-G6,5EB32-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313651541	SJ1,5-G6,5EB32-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313650210	SJ2-G6,5EB18-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650220	SJ2-G6,5EB18-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650230	SJ2-G6,5EB18-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313650240	SJ2-G6,5EB18-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313651211	SJ2-G6,5EB32-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313651221	SJ2-G6,5EB32-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313651231	SJ2-G6,5EB32-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313651241	SJ2-G6,5EB32-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313650310	SJ3-G6,5EB18-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650320	SJ3-G6,5EB18-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650330	SJ3-G6,5EB18-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313650340	SJ3-G6,5EB18-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313651311	SJ3-G6,5EB32-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313651321	SJ3-G6,5EB32-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313651331	SJ3-G6,5EB32-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313651341	SJ3-G6,5EB32-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1
	Designation angled				
08313650155	SJ1,5-G6,5EB18-DPS-W	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	B
08313650212	SJ2-G6,5EB18-DPS-W	PNP	2mm	2m cable PUR 3 x 0,15mm ²	B
08313650312	SJ3-G6,5EB18-DPS-W	PNP	3mm	2m cable PUR 3 x 0,15mm ²	B

Other cable lengths as requested.



INDUCTIVE SENSORS ULTRA MINI

CYLINDER M8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	stainless steel
Front cap	POM



The drawings of these sensors are shown on the following page.

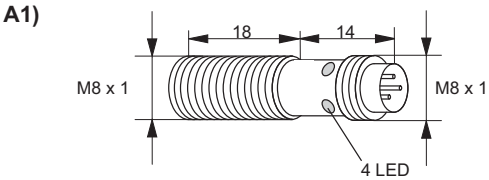
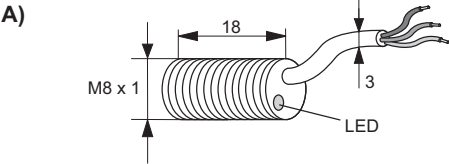
Selection chart

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313080151	SJ1,5-M8EB18-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313080152	SJ1,5-M8EB18-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313080153	SJ1,5-M8EB18-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313080154	SJ1,5-M8EB18-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08310000027	KJ1,5-M8EB30-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08310000482	KJ1,5-M8EB30-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313080157	SJ1,5-M8EB32-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313080158	SJ1,5-M8EB32-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313080210	SJ2-M8EB18-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080220	SJ2-M8EB18-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080230	SJ2-M8EB18-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080240	SJ2-M8EB18-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313080211	SJ2-M8EB32-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313080221	SJ2-M8EB32-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313080231	SJ2-M8EB32-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313080241	SJ2-M8EB32-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313080310	SJ3-M8EB18-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080320	SJ3-M8EB18-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080330	SJ3-M8EB18-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080340	SJ3-M8EB18-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313080311	SJ3-M8EB32-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313080321	SJ3-M8EB32-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313080331	SJ3-M8EB32-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313080341	SJ3-M8EB32-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1



CYLINDER M8

Dimensions



with two M8 screw nuts each

all data in mm



INDUCTIVE SENSORS ULTRA MINI

CYLINDER G8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	Stainless steel
Front cap	POM



The drawings of these sensors are shown on the following page.

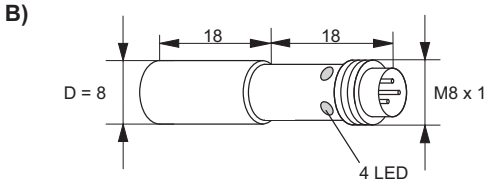
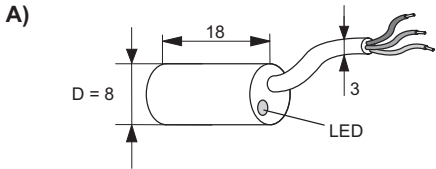
Selection chart

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313680151	SJ1,5-G8EB18-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680152	SJ1,5-G8EB18-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680153	SJ1,5-G8EB18-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680154	SJ1,5-G8EB18-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313680155	SJ1,5-G8EB32-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08313680156	SJ1,5-G8EB32-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313680157	SJ1,5-G8EB32-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313680158	SJ1,5-G8EB32-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313680210	SJ2-G8EB18-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680220	SJ2-G8EB18-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680230	SJ2-G8EB18-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680240	SJ2-G8EB18-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313680211	SJ2-G8EB32-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313680221	SJ2-G8EB32-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313680231	SJ2-G8EB32-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313680241	SJ2-G8EB32-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313680310	SJ3-G8EB18-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680320	SJ3-G8EB18-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680330	SJ3-G8EB18-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680340	SJ3-G8EB18-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313680311	SJ3-G8EB32-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313680321	SJ3-G8EB32-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313680331	SJ3-G8EB32-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313680341	SJ3-G8EB32-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1



CYLINDER G8

Dimensions



all data in mm

p-u-l-s-o-n-i-c
Pulsotronic GmbH & Co. KG

Neue Schichtstraße 14b
D-09366 Niederdorf

☎ +49 (0) 37296 / 930 - 200
☎ +49 (0) 37296 / 930 - 280

✉ info@pulsotronic.de
www.pulsotronic.de

subject to
modifications!



INDUCTIVE SENSORS ULTRA MINI

SQUARE Q5

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	-25°C ... +70°C
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	brass, nickel-plated
Front cap	POM
Connection	2m cable PVC 3 x 0,15mm ²

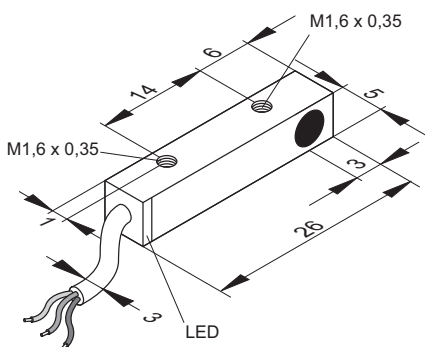


Other cable lengths as requested.

Selection chart

Article number	Designation	Output signal
08313550110	SJ1-Q5MB26-DPS	PNP
08313550120	SJ1-Q5MB26-DPÖ	PNP
08313550130	SJ1-Q5MB26-DNS	NPN
08313550140	SJ1-Q5MB26-DNÖ	NPN

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

SQUARE Q8

General data

Mounting	shielded
Operating voltage U_b	10 ... 30V DC
Ripple voltage U_b	$\leq 10\%$
Voltage drop U_d	$\leq 1V$
Max. load current	200mA
Off-state current I_0	$\leq 10mA$
Residual current I_r	$\leq 10\mu A$
Max. switching frequency f	2000Hz
Hysteresis H	$\leq 15\%$
Repeatability R	$\leq 1\%$
Operating temperature T_a	$-25^\circ C \dots +70^\circ C$
Temperature drift	$\leq 10\%$
Protection class	IP67
EMV-standard	according to EN 60947-5-2
Switching state	LED yellow
Housing material	brass, nickel-plated
Front cap	POM



The drawings of these sensors are shown on the following page.

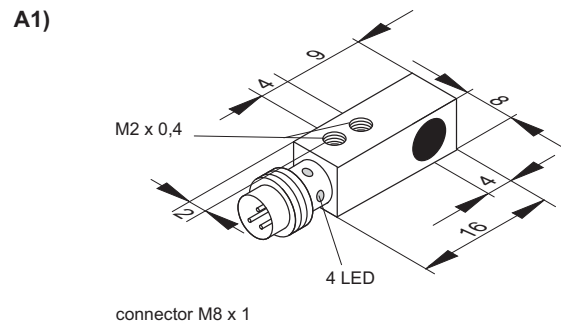
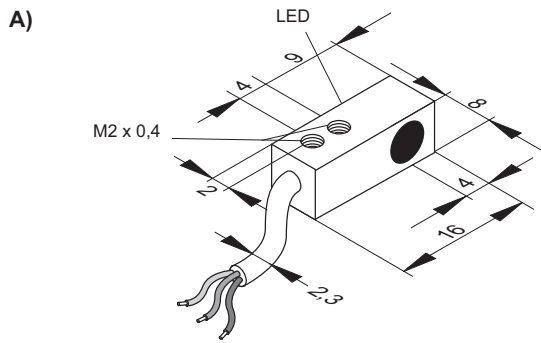
Dimensions

Article number	Designation standard	Output signal	Switching distance	Connection	Drawing (next page)
08313880151	SJ1,5-Q8MB16-DPS	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880152	SJ1,5-Q8MB16-DPÖ	PNP	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880153	SJ1,5-Q8MB16-DNS	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880154	SJ1,5-Q8MB16-DNÖ	NPN	1,5mm	2m cable PUR 3 x 0,15mm ²	A
08313880155	SJ1,5-Q8MB28-DPS-V1	PNP	1,5mm	connector M8 3-pole	A1
08313880156	SJ1,5-Q8MB28-DPÖ-V1	PNP	1,5mm	connector M8 3-pole	A1
08313880157	SJ1,5-Q8MB28-DNS-V1	NPN	1,5mm	connector M8 3-pole	A1
08313880158	SJ1,5-Q8MB28-DNÖ-V1	NPN	1,5mm	connector M8 3-pole	A1
08313880210	SJ2-Q8MB16-DPS	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880220	SJ2-Q8MB16-DPÖ	PNP	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880230	SJ2-Q8MB16-DNS	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880240	SJ2-Q8MB16-DNÖ	NPN	2mm	2m cable PUR 3 x 0,15mm ²	A
08313880211	SJ2-Q8MB28-DPS-V1	PNP	2mm	connector M8 3-pole	A1
08313880221	SJ2-Q8MB28-DPÖ-V1	PNP	2mm	connector M8 3-pole	A1
08313880231	SJ2-Q8MB28-DNS-V1	NPN	2mm	connector M8 3-pole	A1
08313880241	SJ2-Q8MB28-DNÖ-V1	NPN	2mm	connector M8 3-pole	A1
08313880310	SJ3-Q8MB16-DPS	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880320	SJ3-Q8MB16-DPÖ	PNP	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880330	SJ3-Q8MB16-DNS	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880340	SJ3-Q8MB16-DNÖ	NPN	3mm	2m cable PUR 3 x 0,15mm ²	A
08313880311	SJ3-Q8MB28-DPS-V1	PNP	3mm	connector M8 3-pole	A1
08313880321	SJ3-Q8MB28-DPÖ-V1	PNP	3mm	connector M8 3-pole	A1
08313880331	SJ3-Q8MB28-DNS-V1	NPN	3mm	connector M8 3-pole	A1
08313880341	SJ3-Q8MB28-DNÖ-V1	NPN	3mm	connector M8 3-pole	A1



SQUARE Q8

Dimensions



all data in mm



INDUCTIVE SENSORS ULTRA MINI

PRODUCT OVERVIEW

Product group	Designation	Article number	Matchcode	Page
Inductive Ultra Mini	KJ0,6-G3EB22-DPS	08317803010	9980-3010	5
Inductive Ultra Mini	KJ0,6-M4EB-DPS	08317801210	9980-1210	6
Inductive Ultra Mini	SJ0,8-G3EB22-DPS	08313030081		5
Inductive Ultra Mini	SJ0,8-G3EB22-DPÖ	08313030082		5
Inductive Ultra Mini	SJ0,8-G3EB22-DNS	08313030083		5
Inductive Ultra Mini	SJ0,8-G3EB22-DNÖ	08313030084		5
Inductive Ultra Mini	SJ0,8-M4EB22-DPS	08313040085		6
Inductive Ultra Mini	KJ0,8-G4EB25-DPS	08317801010	9980-1010	7
Inductive Ultra Mini	SJ0,8-M4EB22-DPÖ	08313040086		6
Inductive Ultra Mini	SJ0,8-M4EB22-DNS	08313040087		6
Inductive Ultra Mini	KJ0,8-G4EB25-DNS	08317801110	9980-1110	7
Inductive Ultra Mini	SJ0,8-M4EB22-DNÖ	08313040088		6
Inductive Ultra Mini	KJ0,8-G4EB38-DPS-V1	08317801064	9980-1064	7
Inductive Ultra Mini	KJ0,8-G4EB38-DNS-V1	08316801164	9980-1164	7
Inductive Ultra Mini	SJ0,8-G4EB36-DPS-V3	08313040161		7
Inductive Ultra Mini	KJ0,8-M5EB25-DPS	08310000023	9980-2010	9
Inductive Ultra Mini	SJ0,8-M5EB25-DPÖ	08313050124		9
Inductive Ultra Mini	KJ0,8-M5EB25-DNS	08317802110	9980-2110	9
Inductive Ultra Mini	SJ0,8-M5EB27-DNÖ	08313050144		9
Inductive Ultra Mini	KJ0,8-M5EB38-DPS-V1	08317802064	9980-2064	9
Inductive Ultra Mini	KJ0,8-M5EB38-DPÖ-V1	08317802464	9980-2464	9
Inductive Ultra Mini	SJ0,8-M5EB36-DPS-V3	08313050161		9
Inductive Ultra Mini	SJ1W-G4EB30-DPS	08313040112		7
Inductive Ultra Mini	SJ1-G4EB25-DPÖ	08313040120		7
Inductive Ultra Mini	SJ1-G4EB25-DNS	08313040130		7
Inductive Ultra Mini	SJ1-G4EB25-DNÖ	08313040140		7
Inductive Ultra Mini	SJ1W-G4EB40-DPS-V1	08313040113		7
Inductive Ultra Mini	SJ1-G4EB40-DNS-V1	08313040131		7
Inductive Ultra Mini	SJ1-G4EB40-DNÖ-V1	08313040141		7
Inductive Ultra Mini	SJ1W-M5EB30-DPS	08313050112		9
Inductive Ultra Mini	SJ1-Q5MB26-DPS	08313550110		18
Inductive Ultra Mini	SJ1-Q5MB26-DPÖ	08313550120		18
Inductive Ultra Mini	SJ1-Q5MB26-DNS	08313550130		18
Inductive Ultra Mini	SJ1-Q5MB26-DNÖ	08313550140		18
Inductive Ultra Mini	SJ1-M5EB40-DPS-V1	08313050111		9
Inductive Ultra Mini	SJ1,5-G4EB25-DPS	08313041510		7
Inductive Ultra Mini	SJ1,5-G4EB25-DNS	08313041530		7
Inductive Ultra Mini	SJ1,5-G4EB40-DPS-V1	08313041511		7
Inductive Ultra Mini	SJ1,5-G4EB40-DNS-V1	08313041531		7
Inductive Ultra Mini	SJ1,5-M5EB25-DPS	08313051590		9
Inductive Ultra Mini	SJ1,5-G5EB25-DPS	08313050151		11
Inductive Ultra Mini	SJ1,5-G5EB25-DPÖ	08313050152		11
Inductive Ultra Mini	SJ1,5-G5EB25-DNS	08313050153		11
Inductive Ultra Mini	SJ1,5-G5EB25-DNÖ	08313050154		11
Inductive Ultra Mini	SJ1,5-M5EB40-DPS-V1	08313051597		9
Inductive Ultra Mini	SJ1,5-G6,5EB18-DPS	08313650151		13
Inductive Ultra Mini	SJ1,5-G6,5EB18-DPS-W	08313650155		13
Inductive Ultra Mini	SJ1,5-G6,5EB18-DPÖ	08313650152		13



INDUCTIVE SENSORS ULTRA MINI

PRODUCT OVERVIEW

Product group	Designation	Article number	Matchcode	Page
Inductive Ultra Mini	SJ1,5-G6,5EB18-DNS	08313650153		13
Inductive Ultra Mini	SJ1,5-G6,5EB18-DNÖ	08313650154		13
Inductive Ultra Mini	SJ1,5-G6,5EB32-DPS-V1	08313651511		13
Inductive Ultra Mini	SJ1,5-G6,5EB32-DPÖ-V1	08313651521		13
Inductive Ultra Mini	SJ1,5-G6,5EB32-DNS-V1	08313651531		13
Inductive Ultra Mini	SJ1,5-G6,5EB32-DNÖ-V1	08313651541		13
Inductive Ultra Mini	SJ1,5-M8EB18-DPS	08313080151		14
Inductive Ultra Mini	SJ1,5-G8EB18-DPS	08313680151		16
Inductive Ultra Mini	SJ1,5-Q8MB16-DPS	08313880151		19
Inductive Ultra Mini	SJ1,5-M8EB18-DPÖ	08313080152		14
Inductive Ultra Mini	SJ1,5-G8EB18-DPÖ	08313680152		16
Inductive Ultra Mini	SJ1,5-Q8MB16-DPÖ	08313880152		19
Inductive Ultra Mini	SJ1,5-M8EB18-DNS	08313080153		14
Inductive Ultra Mini	SJ1,5-G8EB18-DNS	08313680153		16
Inductive Ultra Mini	SJ1,5-Q8MB16-DNS	08313880153		19
Inductive Ultra Mini	SJ1,5-M8EB18-DNÖ	08313080154		14
Inductive Ultra Mini	SJ1,5-G8EB18-DNÖ	08313680154		16
Inductive Ultra Mini	SJ1,5-Q8MB16-DNÖ	08313880154		19
Inductive Ultra Mini	KJ1,5-M8EB30-DPS-V1	08310000027		14
Inductive Ultra Mini	SJ1,5-G8EB32-DPS-V1	08313680155		16
Inductive Ultra Mini	SJ1,5-Q8MB28-DPS-V1	08313880155		19
Inductive Ultra Mini	KJ1,5-M8EB30-DPÖ-V1	08310000482		14
Inductive Ultra Mini	SJ1,5-G8EB32-DPÖ-V1	08313680156		16
Inductive Ultra Mini	SJ1,5-Q8MB28-DPÖ-V1	08313880156		19
Inductive Ultra Mini	SJ1,5-M8EB32-DNS-V1	08313080157		14
Inductive Ultra Mini	SJ1,5-G8EB32-DNS-V1	08313680157		16
Inductive Ultra Mini	SJ1,5-Q8MB28-DNS-V1	08313880157		19
Inductive Ultra Mini	SJ1,5-M8EB32-DNÖ-V1	08313080158		14
Inductive Ultra Mini	SJ1,5-G8EB32-DNÖ-V1	08313680158		16
Inductive Ultra Mini	SJ1,5-Q8MB28-DNÖ-V1	08313880158		19
Inductive Ultra Mini	SJ2-G6,5EB18-DPS	08313650210		13
Inductive Ultra Mini	SJ2-G6,5EB18-DPS-W	08313650212		13
Inductive Ultra Mini	SJ2-G6,5EB18-DPÖ	08313650220		13
Inductive Ultra Mini	SJ2-G6,5EB18-DNS	08313650230		13
Inductive Ultra Mini	SJ2-G6,5EB18-DNÖ	08313650240		13
Inductive Ultra Mini	SJ2-G6,5EB32-DPS-V1	08313651211		13
Inductive Ultra Mini	SJ2-G6,5EB32-DPÖ-V1	08313651221		13
Inductive Ultra Mini	SJ2-G6,5EB32-DNS-V1	08313651231		13
Inductive Ultra Mini	SJ2-G6,5EB32-DNÖ-V1	08313651241		13
Inductive Ultra Mini	SJ2-M8EB18-DPS	08313080210		14
Inductive Ultra Mini	SJ2-G8EB18-DPS	08313680210		16
Inductive Ultra Mini	SJ2-Q8MB16-DPS	08313880210		19
Inductive Ultra Mini	SJ2-M8EB18-DPÖ	08313080220		14
Inductive Ultra Mini	SJ2-G8EB18-DPÖ	08313680220		16
Inductive Ultra Mini	SJ2-Q8MB16-DPÖ	08313880220		19
Inductive Ultra Mini	SJ2-M8EB18-DNS	08313080230		14
Inductive Ultra Mini	SJ2-G8EB18-DNS	08313680230		16
Inductive Ultra Mini	SJ2-Q8MB16-DNS	08313880230		19



INDUCTIVE SENSORS ULTRA MINI

PRODUCT OVERVIEW

Product group	Designation	Article number	Matchcode	Page
Inductive Ultra Mini	SJ2-M8EB18-DNÖ	08313080240		14
Inductive Ultra Mini	SJ2-G8EB18-DNÖ	08313680240		16
Inductive Ultra Mini	SJ2-Q8MB16-DNÖ	08313880240		19
Inductive Ultra Mini	SJ2-M8EB32-DPS-V1	08313080211		14
Inductive Ultra Mini	SJ2-G8EB32-DPS-V1	08313680211		16
Inductive Ultra Mini	SJ2-Q8MB28-DPS-V1	08313880211		19
Inductive Ultra Mini	SJ2-M8EB32-DPÖ-V1	08313080221		14
Inductive Ultra Mini	SJ2-G8EB32-DPÖ-V1	08313680221		16
Inductive Ultra Mini	SJ2-Q8MB28-DPÖ-V1	08313880221		19
Inductive Ultra Mini	SJ2-M8EB32-DNS-V1	08313080231		14
Inductive Ultra Mini	SJ2-G8EB32-DNS-V1	08313680231		16
Inductive Ultra Mini	SJ2-Q8MB28-DNS-V1	08313880231		19
Inductive Ultra Mini	SJ2-M8EB32-DNÖ-V1	08313080241		14
Inductive Ultra Mini	SJ2-G8EB32-DNÖ-V1	08313680241		16
Inductive Ultra Mini	SJ2-Q8MB28-DNÖ-V1	08313880241		19
Inductive Ultra Mini	SJ3-G6,5EB18-DPS	08313650310		13
Inductive Ultra Mini	SJ3-G6,5EB18-DPS-W	08313650312		13
Inductive Ultra Mini	SJ3-G6,5EB18-DPÖ	08313650320		13
Inductive Ultra Mini	SJ3-G6,5EB18-DNS	08313650330		13
Inductive Ultra Mini	SJ3-G6,5EB18-DNÖ	08313650340		13
Inductive Ultra Mini	SJ3-G6,5EB32-DPS-V1	08313651311		13
Inductive Ultra Mini	SJ3-G6,5EB32-DPÖ-V1	08313651321		13
Inductive Ultra Mini	SJ3-G6,5EB32-DNS-V1	08313651331		13
Inductive Ultra Mini	SJ3-G6,5EB32-DNÖ-V1	08313651341		13
Inductive Ultra Mini	SJ3-M8EB18-DPS	08313080310		14
Inductive Ultra Mini	SJ3-G8EB18-DPS	08313680310		16
Inductive Ultra Mini	SJ3-Q8MB16-DPS	08313880310		19
Inductive Ultra Mini	SJ3-M8EB18-DPÖ	08313080320		14
Inductive Ultra Mini	SJ3-G8EB18-DPÖ	08313680320		16
Inductive Ultra Mini	SJ3-Q8MB16-DPÖ	08313880320		19
Inductive Ultra Mini	SJ3-M8EB18-DNS	08313080330		14
Inductive Ultra Mini	SJ3-G8EB18-DNS	08313680330		16
Inductive Ultra Mini	SJ3-Q8MB16-DNS	08313880330		19
Inductive Ultra Mini	SJ3-M8EB18-DNÖ	08313080340		14
Inductive Ultra Mini	SJ3-G8EB18-DNÖ	08313680340		16
Inductive Ultra Mini	SJ3-Q8MB16-DNÖ	08313880340		19
Inductive Ultra Mini	SJ3-M8EB32-DPS-V1	08313080311		14
Inductive Ultra Mini	SJ3-G8EB32-DPS-V1	08313680311		16
Inductive Ultra Mini	SJ3-Q8MB28-DPS-V1	08313880311		19
Inductive Ultra Mini	SJ3-M8EB32-DPÖ-V1	08313080321		14
Inductive Ultra Mini	SJ3-G8EB32-DPÖ-V1	08313680321		16
Inductive Ultra Mini	SJ3-Q8MB28-DPÖ-V1	08313880321		19
Inductive Ultra Mini	SJ3-M8EB32-DNS-V1	08313080331		14
Inductive Ultra Mini	SJ3-G8EB32-DNS-V1	08313680331		16
Inductive Ultra Mini	SJ3-Q8MB28-DNS-V1	08313880331		19
Inductive Ultra Mini	SJ3-M8EB32-DNÖ-V1	08313080341		14
Inductive Ultra Mini	SJ3-G8EB32-DNÖ-V1	08313680341		16
Inductive Ultra Mini	SJ3-Q8MB28-DNÖ-V1	08313880341		19



NOTES
