

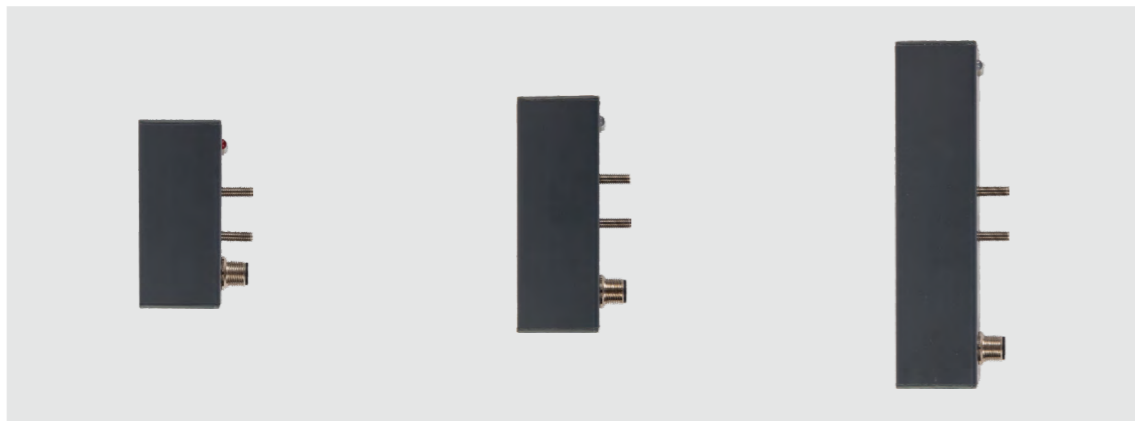
Inductive Sensor Strips

80 - 500 mm length

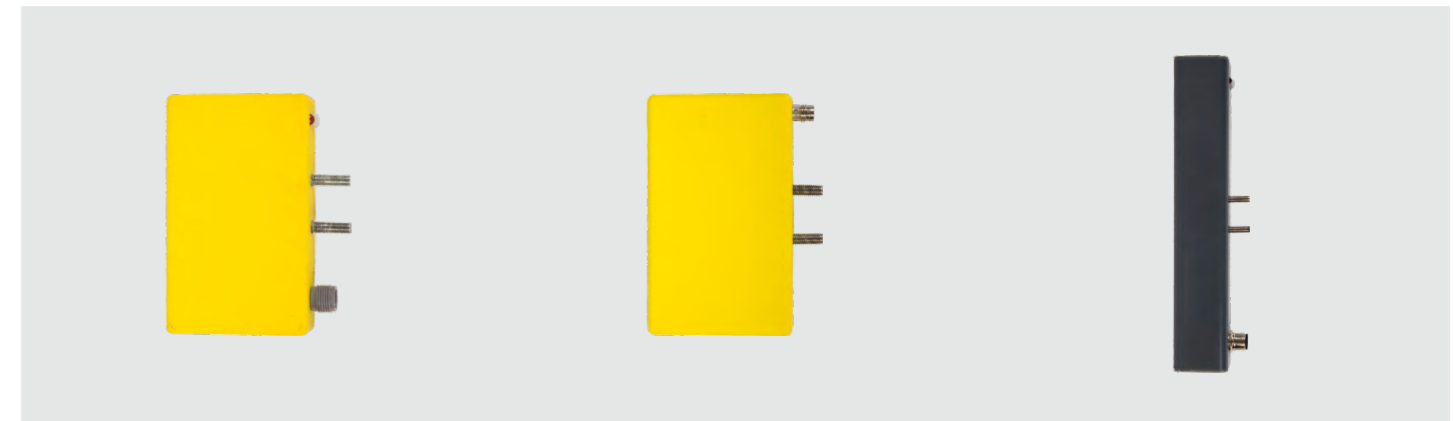
Monitoring of conveyors and transport systems



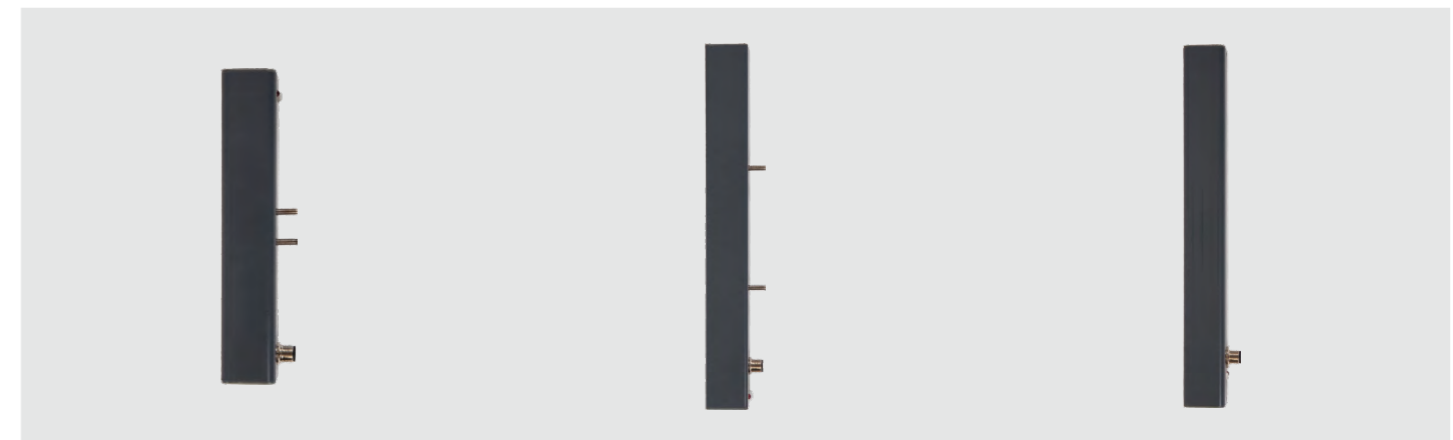
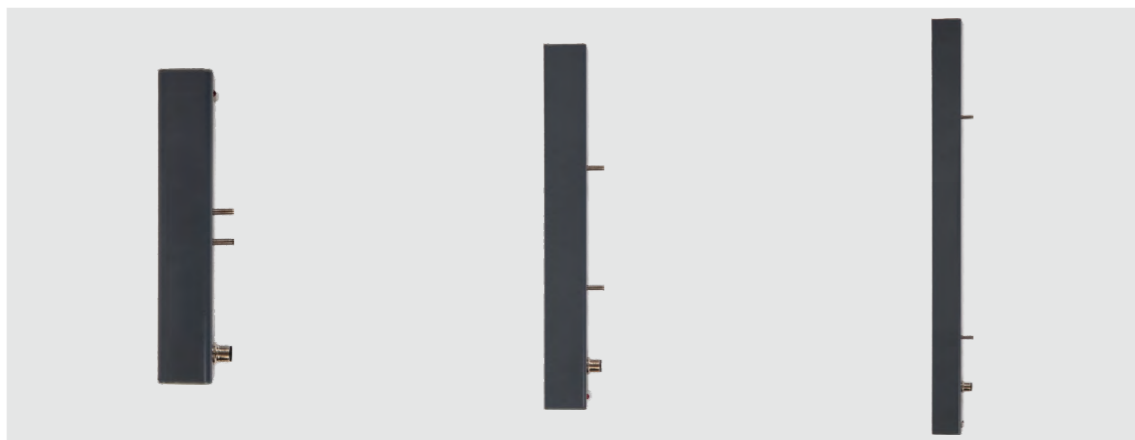
Inductive Sensor Strips
80 up to 500 mm length



Inductive Sensor Strips
80 up to 500 mm length



Length [mm]	80	100	150	100	100	200
Type	IKU 008	IKU 011	IKU 015	IKU 010	IKUS 010	IKU 022
Sensing distance Sn [mm]	30	30	30	20	20	15
Mounting	non flush	non flush	non flush	non flush	non flush	non flush
Measuring plate [mm]	80 x 50	100 x 50	150 x 50	100 x 50	100 x 50	45 x 45
Dimension [mm]	80 x 35 x 35	100 x 35 x 35	150 x 35 x 35	100 x 21 x 60	100 x 16 x 60	200 x 35 x 35
Fixing	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 20 mm
Housing material	PVC	PVC	PVC	PBT	PBT	PVC
Protection class	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
L - Version*	yes	yes	yes	no	no	no
Remarks				slim design	slim design	two separate response zones of different length, to detect jam, velocity, direction



Length [mm]	200	300	500	200	300	300
Type	IKU 021	IKU 031	IKU 051	IKU 023	IKU 032	IKUD 031
Sensing distance Sn [mm]	30	30	30	15	15	30
Mounting	non flush	non flush	non flush	non flush	non flush	non flush
Measuring plate [mm]	200 x 50	300 x 50	500 x 50	45 x 45	45 x 45	300 x 50
Dimension [mm]	200 x 35 x 35	300 x 35 x 35	500 x 35 x 35	200 x 35 x 35	300 x 35 x 35	300 x 35 x 35
Fixing	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 100 mm	2x M5 x 15, distance 270 mm	2x M5 x 15, distance 20 mm	2x M5 x 15, distance 100 mm	2x mounting holes Ø 4,2 mm
Housing material	PVC	PVC	PVC	PVC	PVC	PVC
Protection class	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
L - Version*	yes	yes	yes	no	no	no
Remarks				row installation without offset oscillation frequency version detection of metal strips on the full sensor length, strip width >75 mm		alternative fixing

The sensing distance stated above describes the axial approaching of a square steel plate with a complete covering of the sensor surface. (e.g.: sensing distance Sn = 30 mm relates to a steel plate with side lengths of 150 x 50 mm at IKU 015). Smaller metal object reduces the maximum attainable sensing distance.

The attainable sensing distance is a function of the material of the metal object and can be calculated using the correction factor:
max. possible sensing distance = sensing distance x correction factor

* In the L-Version the plug, LED and the control elements are positioned on the front side. This makes it possible, to make the settings even if the sensor back is hard to access.

material	metal foil	steel	stainless steel	brass	aluminium	copper	nickel	cast iron
correction factor	1,2	1	0,5 ... 0,8	0,45	0,4	0,3	0,7	0,93 ... 1,05

General information Inductive Sensor Strips

Inductive sensor strips detect metal objects on conveyor belts or transport systems without contact. A variety of housings and lengths allow the integration in different applications. The comfortable setting with teach-in allows an easy installation and enables safe operation even under demanding conditions. Besides, the optimal solution for every application can be achieved by customizing the existing articles.

- Contactless detection of metal objects
- For conveyor belts and roller ways
- Monitoring of stacks of blanks
- Unaffected by contamination
- 80 - 500 mm sensor lengths
- One or more response zones
- Different switching outputs
- Short circuit and polarity reverse protection



Type Code

	1	2	3	4	5	6	7	8
Type (see table previous page)	e.g. IKU 011							
Proxi-Teach*	T							
20 - 260 V AC/DC		0						
24 V DC		1						
10 - 30 V DC		2						
NPN - normally closed			0					
NPN - normally open			1					
PNP - normally closed			2					
PNP - normally open			3					
2-wire normally closed AC/DC			4					
2-wire normally open AC/DC			5					
2-wire normally closed 24 V DC			6					
2-wire normally open 24 V DC			7					
PNP normally closed + PNP normally open			8					
Short circuit protection					G			
Plug M12x1 DC						S4		
Plug 7/8" - 16 UN						S5		
Plug M12x1 AC						S27		
Plug M8 DC						S49		
L-Version with plug, LED and the control elements are positioned on the front side.								L
Offset oscillation frequency for row installation								F
Customer specific version								SA

* Proximity switches with Proxi-Teach™ recognise the existing installation conditions after one key is pressed and adjust the operating distance optimally. This enables safety operation under non-standard installation conditions. The effort upon startup is minimized.