

At a glance

Magnetic field sensors



Magnetic field sensors for pneumatic cylinders

Magnetic field sensors are activated by magnetic fields and are especially suited for the detection of pistons in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable metals, sensors of this type detect a permanent magnet mounted on a piston through the aluminium wall of a cylinder.

Magnetic-inductive sensors from TURCK operate on a patented function principle. The sensing range is adjusted to a core width to rule out multiple switchpoints. Permanent magnets of different field strengths are thus reliably detected in all common cylinder types. The sensors operate wear-free, are rugged and short-circuit protected and feature protection class IP67.

The product range offers many solutions for standard applications, welding facilities as well as Ex-areas. TURCK also offers magnetic field sensors for analog detection tasks. They are easy to operate and even fulfill higher requirements equally reliable.

To monitor the piston position on all standard pneumatic cylinders, sensors from only one family are required, namely BIM-UNT and BIM-UNR. NAMUR sensors for explosion hazardous areas are also available.

BIM-UNT and BIM-UNR can be mounted directly on T- and C-groove cylinders. Matching accessories are available for round, tie-rod and dovetail cylinders, making the use of special versions with manual fine adjustment or external switchpoint setting redundant.

The family of universal magnetic field sensors for pneumatic cylinders is completed by the WIM45-UNT with analog current and voltage output. Already existing solutions with indirect analog detection can be replaced easily by this new type.

Our strengths - Your advantages



Universal magnetic field sensors

The piston position is monitored very comfortably on all standard pneumatic cylinders with the universal magnetic field sensors. But what's more, the new magnetic field sensors by TURCK not only support efficient standardization but also provide enormous potential in

terms of optimization, from construction over purchase and production up to system support for operators and service personnel. Use the unique performance spectrum of these sensors for effective cost reduction!



High system availability

The universally applicable magnetic field sensors operate extremely reliable, even in rough production environments. This is guaranteed through excellent EMC immunity, protection class IP67 as well as the especially safe installation method of the sensors. We placed great emphasis

on practical functionality of the housings and solid mounting accessories. Magnetic field sensors thus withstand the rough ambient conditions of machine building without any problems. Use these benefits to optimize your production processes.

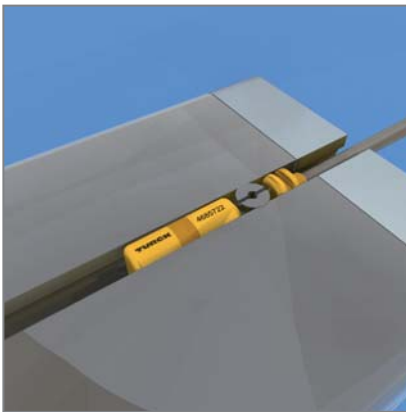


Maximum freedom

Numerous connection possibilities, simple mounting and flexible accessories guarantee maximum freedom in planning with minimal mounting effort. From single switchpoint monitoring, over twin-sets, analog position detection up

to combined binary/analog monitoring: Profit from the extensive standard product range of TURCK magnetic field sensors providing more flexibility for your application.

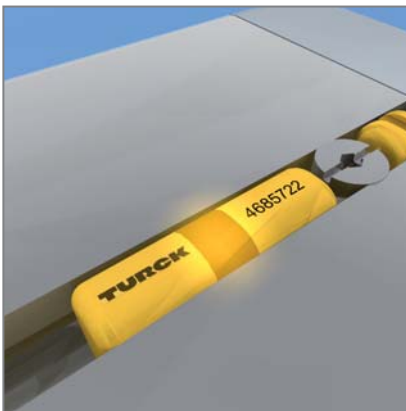
advantages



Safe installation

A pre-fixation lip enables one-handed mounting in the groove. Once inserted in the groove, the sensor is moved to its final position. Screwed tight with a wing screw near the cable exit prevents an uplift of the sensor when pulling the

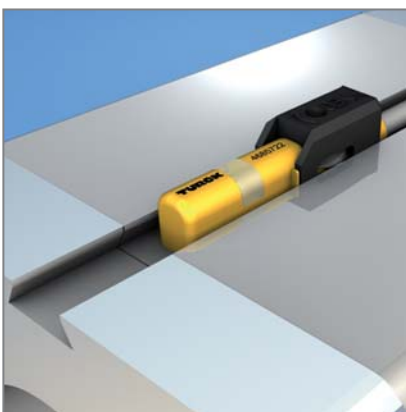
cable. The screw is made of tool steel alloy and thus extremely stable. For vibration-resistant mounting it is simply enough to tighten the screw with a quarter revolution, using a standard screw driver or a 1.5 mm Allen key.



Compact design

With a total length of only 28 (UNT) resp. 18 mm (UNR) the standard sensors are the most compact devices on the market. The active face is located directly at the sensor end. This enables the piston position to be detected up to the end of compact short-stroke cylinders.

Thanks to the bright and all-round visible LED, the switching state is perfectly visible from any perspective and proves helpful when the sensors are aligned and mounted. The best mounting position is thus obtained.



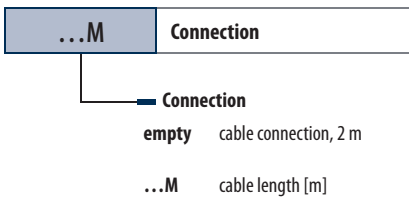
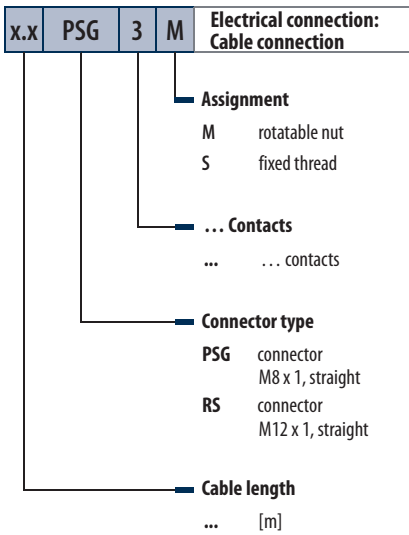
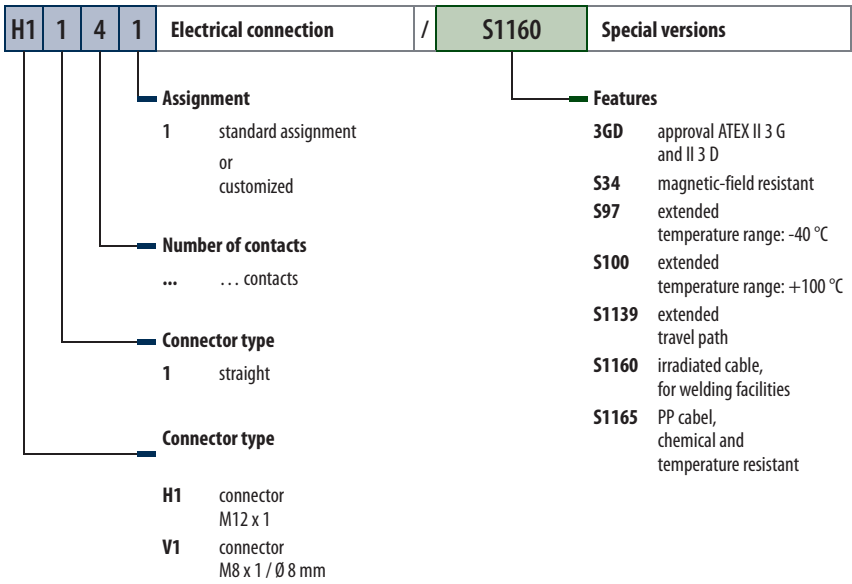
Optional accessories

An extensive range of accessories round off the performance spectrum of the new, universally applicable magnetic field sensors. We offer mounting aids for all standard cylinders, adjustment and fixation tools, as well as the fixation clips for save cable routing. Due to a novel MR sensor

element all magnets in standard pneumatic cylinders can be detected safely and without multiple switchpoints. Thus exact position detection is possible, allowing you to benefit from the high level of flexibility.

Type code

BIM	Functional principle	UNT	Housing	A	P	6	X	Electrical version
Functional principle BIM magnetic-inductive/ magnetostrictive WiM45 analog position detection magnetically actuated, 45 mm measuring range		Housing IKT for tie-rod and profile cylinders mounted with fixing clamp, active face centered NST for groove cylinders, mounted with fixing clamp, incl. accessories adaptable to dovetail and tie-rod cylinders active face centered UNR for C-groove cylinders without accessories, adaptable to other cylinder types with accessories UNT for T-groove cylinders without accessories, adaptable to other cylinder types with accessories UNTL long size, with analog output, for T-groove cylin- ders without accessories, adaptable to other cylinder types with accessories			Indication X 1 x LED X... number of LEDs or multicolor LED Voltage range 6 10...30 VDC, ☉ Output mode N NPN P PNP Output function A working current NO LIU analog output (voltage and current), $U_b = 15...30$ VDC AY1 digital (NAMUR acc. to EN 60947-5-6) Y1 analog (NAMUR acc. to EN 60947-5-6)			



Designs and variants

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UNT

rectangular UNT,
5 x 6 x 28 mm

Design

Measuring range

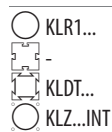
Electrical connection

cable
connector, M12 x 1
connector, fixed
thread, cable with connector,
Ø 8 mm
connector, rotatable
thread, M8 x 1
connector, M8 x 1

Output

2-wire DC NAMUR
3-wire DC PNP
3-wire DC NPN
4-wire DC PNP
4-wire DC NPN

Accessories cylindrical design



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UNR

rectangular UNR,
2.9 x 4.6 x 18 mm

cable
connector, fixed
thread, cable with connector,
Ø 8 mm
connector, rotatable
thread, M8 x 1
connector, M12 x 1

3-wire DC PNP
3-wire DC NPN



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WIM

rectangular UNTL,
5 x 14.5 x 73 mm

45 mm

cable with connector, M8 x 1
cable with connector, M12 x 1
connector, M12 x 1

4-wire DC Analog output
4-wire DC PNP/analog output



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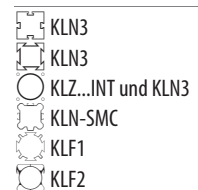


NST

rectangular NST,
17 x 14 x 28 mm

connector, M12 x 1
connector, M8 x 1
cable

2-wire DC NAMUR
3-wire DC PNP
3-wire DC NPN



Standard variants

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	IKT
Design	rectangular IKT, 14.6 x 17 x 30 mm
Electrical connection	connector, M8 x 1 connector, M12 x 1 cable
Output	2-wire DC NAMUR 3-wire DC PNP 3-wire DC NPN
Accessories cylindrical design	 KLI... KLI... KLI...

Magnetic field sensors - UNT series

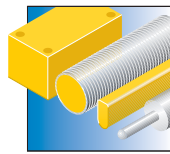


UNTs are mounted quickly and firmly. A pre-fixation lip enables one-handed mounting, even overhead. With the extended range of accessories, the sensors can be mounted on nearly all standard pneumatic cylinders. All standard connection types are available.

Features

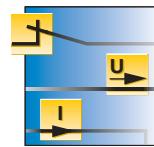
- Compact design
- Quickly and firmly mounted
- Excellent EMC immunity
- For T-groove cylinders without accessories
- Mounting accessories for all standard cylinders.
- Clearly visible LED
- Twin set for switchpoint monitoring

Properties



Design

One type for all standard pneumatic cylinders



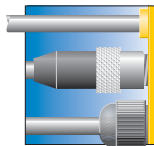
Electrical versions

NAMUR, 2, 3 and 4-wire DC



Measuring ranges

Reliable position detection on all standard pneumatic cylinders



Electrical connections

All standard connection types available, cable, connector or pigtail



Materials

Rugged PP housing for a wide range of applications

UNT – Cable connection



General data

Dimensions	5 x 6 x 28 mm	Protection class	IP67
Electrical connection	cable	Material housing	PP
Switching frequency	1 kHz	Material active face	PP

Types and data – selection table

Type	Output	Operating voltage	Ambient temperature	Material cable	w	d
BIM-UNT-AP6X	—, PNP	10...30 VDC	-25...+70 °C	PUR 2 m	w059	d363
BIM-UNT-AP6X 7M	—, PNP	10...30 VDC	-25...+70 °C	PUR 7 m	w059	d363
BIM-UNT-AP6X/S1139	—, PNP	10...30 VDC	-25...+70 °C	PUR 2 m	w059	d363
BIM-UNT-AP6X/S1160	—, PNP	10...30 VDC	-25...+70 °C	TPU 2 m	w059	d363
BIM-UNT-AP6X/S100/S1165	—, PNP	10...30 VDC	-25...+100 °C	TPE 2 m	w059	d363
BIM-UNT-AP6X/3GD	—, PNP	10...30 VDC	-25...+70 °C	PUR 2 m	w059	d363
BIM-UNT-AN6X	—, NPN	10...30 VDC	-25...+70 °C	PUR 2 m	w005	d363
BIM-UNT-AG41X/S1139/S1160	—, 2-wire	10...55 VDC	-25...+70 °C	TPU 2 m	w065	d363
BIM-UNT-AG41X/S1139/S1160 7M	—, 2-wire	10...55 VDC	-25...+70 °C	TPU 7 m	w065	d363
BIM-UNT-AY1X/S1139	NAMUR	nom. 8.2 VDC	-25...+70 °C	PVC 2 m	w019	d363
BIM-UNT-AY1X/S1139 7M	NAMUR	nom. 8.2 VDC	-25...+70 °C	PVC 7 m	w019	d363

UNT – Pigtail with M8 x 1 connector



General data

Dimensions	5 x 6 x 28 mm	Material housing	PP
Switching frequency	1 kHz	Material active face	PP
Ambient temperature	-25...+70 °C	Material cable	PUR 0.3 m
Protection class	IP67		

Types and data – selection table

Type	Output	Electrical connection	Operating voltage	w	d
BIM-UNT-AP6X-0,3-PSG3S	— , PNP	connector, fixed thread, Ø 8 mm	10...30 VDC	w001	d364
BIM-UNT-AP6X-0,3-PSG3S/S1139	— , PNP	connector, fixed thread, Ø 8 mm	10...30 VDC	w001	d364
BIM-UNT-AN6X-0,3-PSG3S	— , NPN	connector, fixed thread, Ø 8 mm	10...30 VDC	w002	d364
BIM-UNT-AP6X-0,3-PSG3M	— , PNP	connector rotatable thread, M8 x 1	10...30 VDC	w001	d365
BIM-UNT-AP6X-0,3-PSG3M/S1139	— , PNP	connector rotatable thread, M8 x 1	10...30 VDC	w001	d365
BIM-UNT-AN6X-0,3-PSG3M	— , NPN	connector rotatable thread, M8 x 1	10...30 VDC	w002	d365

UNT – Pigtail with M12 x 1 connector



General data

Dimensions	5 x 6 x 28 mm
Electrical connection	connector, M12 x 1
Switching frequency	1 kHz
Ambient temperature	-25...+70 °C

Protection class	IP67
Material housing	PP
Material active face	PP

Types and data – selection table

Type	Output	Operating voltage	Material cable	w	d
BIM-UNT-AP6X-0,3-RS4	— , PNP	10...30 VDC	PUR 0.3 m	w001	d366
BIM-UNT-AP6X-0,3-RS4/S1139	— , PNP	10...30 VDC	PUR 0.3 m	w001	d366
BIM-UNT-AP6X-0,3-RS4/S1160	— , PNP	10...30 VDC	TPU 0.3 m	w001	d366
BIM-UNT-AG41X-0,3-RS4.23/S1139/S1160	— , 2-wire	10...55 VDC	TPU 0.3 m	w032	d366
BIM-UNT-AY1X-0,3-RS4.21/S1139	NAMUR	nom. 8.2 VDC	PVC 0.3 m	w021	d366

UNT – M12 x 1 or M8 x 1 connector



General data

Dimensions	5 x 22 x 30 mm
Operating voltage	10...30 VDC
Switching frequency	1 kHz
Ambient temperature	-25...+70 °C

Protection class	IP67
Material housing	PP
Material active face	PP

Types and data – selection table

Type	Output	Electrical connection	w	d
BIM-UNT-AP6X2-V1131	—, PNP	connector, M8 x 1	w001	d367
BIM-UNT-AP6X2-H1141	—, PNP	connector, M12 x 1	w001	d368
BIM-UNT-AN6X2-V1131	—, NPN	connector, M8 x 1	w002	d367
BIM-UNT-AN6X2-H1141	—, NPN	connector, M8 x 1	w002	d368

UNT – Twin set



General data

Dimensions	5 x 22 x 30 mm	Protection class	IP67
Operating voltage	10...30 VDC	Material housing	PP
Switching frequency	1 kHz	Material active face	PP
Ambient temperature	-25...+70 °C	Material cable	PUR 0.3 m

Types and data – selection table

Type	Output	Electrical connection	w	d
BIM-UNT-0,3-UNT-2AP6X3-V1141	—, PNP	connector, M8 x 1	w066	d369
BIM-UNT-0,3-UNT-2AP6X3-H1141	—, PNP	connector, M12 x 1	w066	d370
BIM-UNT-0,3-UNT-2AN6X3-H1141	—, NPN	connector, M12 x 1	w066	d370

Magnetic field sensors UNR design

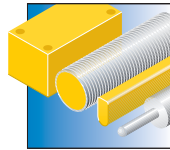


Magnetic field sensors for short-stroke cylinders and parallel grippers are very compactly designed. The all-round visible LED allows the switching state to be observed from any position. All standard connection types are available.

Features

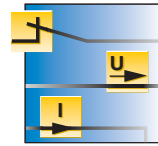
- Compact design
- For C-groove cylinders
- Quickly and firmly mounted
- Excellent EMC properties
- Clearly visible LED

Properties



Design

Small size, length
18 mm



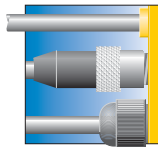
Electrical versions

3-wire DC outputs NPN/
PNP switching



Measuring ranges

Reliable position detec-
tion on all standard
pneumatic cylinders



Electrical connections

All standard connection
types available, cable,
connector or pigtail



Materials

Rugged PP housing for
a wide range of applica-
tions

UNR – 3-wire DC



General data

Dimensions	2.9 x 4.6 x 18 mm	Protection class	IP67
Operating voltage	10...30 VDC	Material housing	PP
Switching frequency	0.3 kHz	Material active face	PP
Ambient temperature	-25...+70 °C		

Types and data – selection table

Type	Output	Electrical connection	Material cable	w	d
BIM-UNR-AP6X-0,3-RS4	— / — / —, PNP	connector, M12 x 1	PUR 0.3 m	w001	d374
BIM-UNR-AP6X-0,3-PSG3S	— / — / —, PNP	connector, fixed thread, Ø 8 mm	PUR 0.3 m	w001	d372
BIM-UNR-AP6X-0,3-PSG3M	— / — / —, PNP	connector, rotatable thread, M8 x 1	PUR 0.3 m	w001	d373
BIM-UNR-AP6X 7M	— / — / —, PNP	cable	PUR 7 m	w059	d371
BIM-UNR-AP6X	— / — / —, PNP	cable	PUR 2 m	w059	d371
BIM-UNR-AN6X-0,3-RS4	— / — / —, NPN	connector, M12 x 1	PUR 0.3 m	w002	d374
BIM-UNR-AN6X-0,3-PSG3S	— / — / —, NPN	connector, fixed thread, Ø 8 mm	PUR 0.3 m	w002	d372
BIM-UNR-AN6X-0,3-PSG3M	— / — / —, NPN	connector, rotatable thread, M8 x 1	PUR 0.3 m	w002	d373
BIM-UNR-AN6X 7M	— / — / —, NPN	cable	PUR 7 m	w005	d371
BIM-UNR-AN6X	— / — / —, NPN	cable	PUR 2 m	w005	d371

Magnetic field sensors - analog position gauging systems

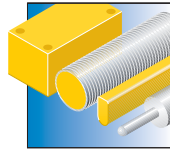


The universal magnetic field sensors for pneumatic cylinders are now also available with analog current and voltage output. The new analog sensor WIM45-UNTL by TURCK provides obvious advantages, especially in situations where additional flexibility and monitoring properties are required.

Features

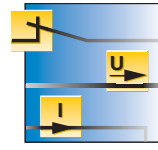
- Compact design
- Quickly and firmly mounted
- Inserted in the groove from the top
- Hardly affected by external magnetic fields
- Status of magnetic field displayed via 2 LEDs
- Measured value memory

Properties



Design

One type for all standard pneumatic cylinders



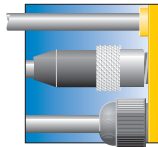
Electrical versions

Analog outputs
4... 20 mA, 0...10 VDC,
3-wire DC switching
output



Measuring ranges

Analog position detection up to 45 mm on all standard pneumatic cylinders



Electrical connections

Standard connection with cable and M8/M12 connector



Materials

Rugged PA housing for a wide range of applications



Special features

Also available with combined analog and switching output in one device.

UNTL – Current and voltage output



General data		Protection class	IP67
Dimensions	5 x 14,5 x 73 mm	Material housing	PA
Analog output	4...20 mA, 0...10 V	Material active face	PA
Operating voltage	15...30 VDC		
Ambient temperature	-25...+70 °C		

Types and data – selection table

Type	Electrical connection	w	d
WIM45-UNTL-LIU5X2-0,3-PSG4M	cable with connector, M8 x 1	w051	d375
WIM45-UNTL-LIU5X2-0,3-RS4	cable with connector, M12 x 1	w051	d376

UNTL – Twin set



Type	WIM45-UNTL-0,3-BIM-UNT-LUAP6X 4-H1141	Ambient temperature	-25...+70 °C
Output	—, PNP/analog output	Protection class	IP67
Analog output	0...10 V	Material housing	PA12-GF30 / PP
Electrical connection	connector, M12 x 1	Material cable	PUR 0.3 m
Operating voltage	15...30 VDC	Wiring diagram	w067
Switching frequency	1 kHz	Dimension drawing	d377

Magnetic field sensors for harsh environments

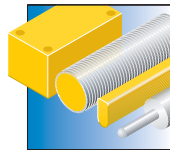


The rugged magnetic field sensors are particularly suited for harsh environments. With the extended range of accessories the sensors can be mounted on nearly all standard pneumatic cylinders. All standard connection types are available.

Features

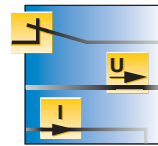
- Rugged design
- Many different mounting options
- Optional weld field immunity
- Excellent EMC properties

Properties



Design

standard design suited for harsh environments.



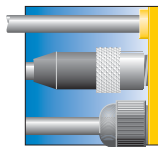
Electrical versions

NAMUR, 2/3-wire DC



Measuring ranges

Reliable position detection on all standard pneumatic cylinders



Electrical connections

All standard connection types available, cable, connector



Materials

Rugged PA12-GF30 resp. GD-ZN housing for a wide range of applications

NST – NAMUR



General data

Dimensions	17 x 14 x 28 mm	Ambient temperature	-25...+70 °C
Output	NAMUR	Protection class	IP67
Operating voltage	nom. 8.2 VDC	Material housing	PA
Switching frequency	1 kHz	Material active face	PA

Types and data – selection table

Type	Electrical connection	Material cable	w	d
BIM-NST-Y1X-H1141	connector, M12 x 1	-	w021	d378
BIM-NST-Y1X	cable	PVC 2 m	w019	d379

NST – 3-wire DC



General data

Dimensions	17 x 14 x 28 mm	Protection class	IP67
Operating voltage	10...30 VDC	Material housing	PA
Ambient temperature	-25...+70 °C	Material active face	PA

Types and data – selection table

Type	Output	Electrical connection	Switching frequency	Material cable	w	d
BIM-NST-AP6X-V1131	PNP	connector, M8 x 1	1 kHz	-	w001	d380
BIM-NST-AP6X-H1141/S34	PNP	connector, M12 x 1	0.02 kHz	-	w001	d381
BIM-NST-AP6X-H1141	PNP	connector, M12 x 1	1 kHz	-	w001	d378
BIM-NST-AP6X	PNP	cable	1 kHz	PVC 2 m	w059	d379
BIM-NST-AN6X-V1131	NPN	connector, M8 x 1	1 kHz	-	w002	d380
BIM-NST-AN6X-H1141/S34	NPN	connector, M12 x 1	0.02 kHz	-	w002	d381
BIM-NST-AN6X-H1141	NPN	connector, M12 x 1	1 kHz	-	w002	d378
BIM-NST-AN6X	NPN	cable	1 kHz	PVC 2 m	w005	d379

IKT – NAMUR



General data

Output	NAMUR	Protection class	IP67
Operating voltage	nom. 8.2 VDC	Material housing	GD-Zn
Switching frequency	1 kHz	Material active face	PA
Ambient temperature	-25...+70 °C		

Types and data – selection table

Type	Dimensions	Electrical connection	Material cable	w	d
BIM-IKT-Y1X-H1141	14.6 x 28 x 30 mm	connector, M12 x 1	-	w021	d382
BIM-IKT-Y1X	14.6 x 17 x 30 mm	cable	PVC 2 m	w019	d383

IKT – 3-wire DC



General data

Operating voltage	10...30 VDC	Protection class	IP67
Switching frequency	1 kHz	Material housing	GD-Zn
Ambient temperature	-25...+70 °C	Material active face	PA

Types and data – selection table

Type	Dimensions	Output	Electrical connection	Material cable	w	d
BIM-IKT-AP6X-V1131	14.6 x 17 x 30 mm	—, PNP	connector, M8 x 1	-	w001	d384
BIM-IKT-AP6X-H1141	14.6 x 28 x 30 mm	—, PNP	connector, M12 x 1	-	w001	d382
BIM-IKT-AP6X	14.6 x 17 x 30 mm	—, PNP	cable	PVC 2 m	w059	d383
BIM-IKT-AN6X-V1131	14.6 x 17 x 30 mm	—, NPN	connector, M8 x 1	-	w002	d384
BIM-IKT-AN6X-H1141	14.6 x 28 x 30 mm	—, NPN	connector, M12 x 1	-	w002	d382
BIM-IKT-AN6X	14.6 x 17 x 30 mm	—, NPN	cable	PVC 2 m	w005	d383

Accessories for magnetic field sensors

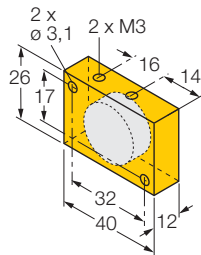


The permanent magnets are used as actuating elements for magnetic inductive proximity sensors or as positioning elements for magnetic inductive linear-position sensors. Despite the small size, they achieve larger switching distances compared to inductive sensors. They fit in narrow spaces and are ideal for difficult sensing conditions, such as hangar doors with poor guiding control.

Features

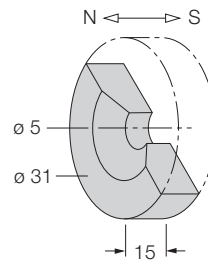
- Strontium ferrite magnets, rugged and resistant to chemicals
- Block-shaped polyamide magnet
- Switching distance up to 90 mm on BIM-(E)M12 sensors
- Switching distance up to 78 mm on BIM-EG08 sensors
- Recommended distance between magnet and WIM-Q25L positioning sensor: 3 to 5 mm

Actuating magnets



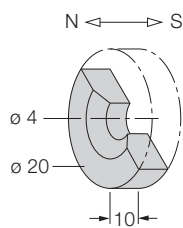
DM-Q12

Actuating magnet; block-shaped, plastic; sensing range 58 mm on BIM-(E)M12 sensors resp. 49 mm on BIM-EG08 sensors; in combination with Q25: Recommended distance between sensor and magnet: 3 ... 5 mm



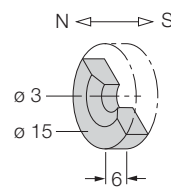
DMR31-15-5

Actuating magnet, Ø 31 mm (Ø 5 mm), h: 15 mm; sensing range 90 mm on BIM-(E)M12 sensors resp. 78 mm on BIM-EG08 sensors; in combination with Q25L: Recommended distance between sensor and magnet: 3 ... 5 mm



DMR20-10-4

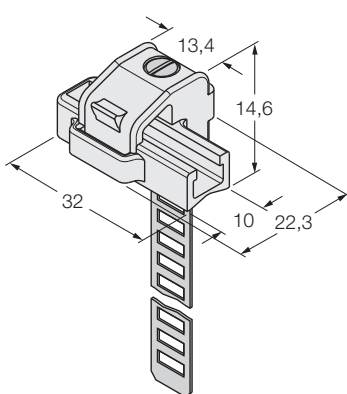
Actuating magnet; Ø 20 mm (Ø 4 mm), height 10 mm; sensing range 59 mm on BIM-(E)M12 sensors resp. 50 mm on BIM-EG08 sensors; in combination with Q25L: Recommended distance between sensor and magnet: 3 ... 4 mm



DMR15-6-3

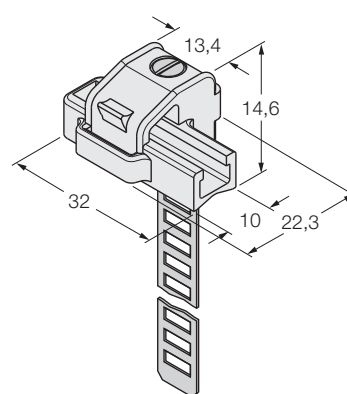
Actuating magnet, Ø 15 mm (Ø 3 mm), height 6 mm; sensing range 36 mm on BIM-(E)M12 sensors resp. 32 mm on BIM-EG08 sensors; in combination with Q25L: Recommended distance between sensor and magnet: 3 ... 4 mm

Accessories for UNT



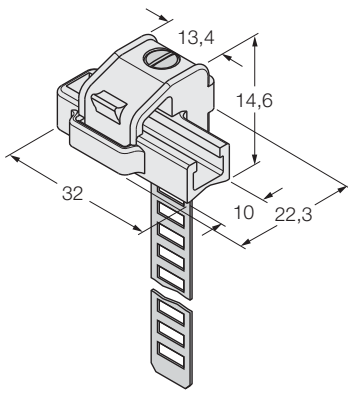
KLRC-UNT1

Mounting aid for ○ cylinders; Ø 8...25 mm; PA 6I/6T / nickel silver; fire-hazard classification acc. to UL94 - V2

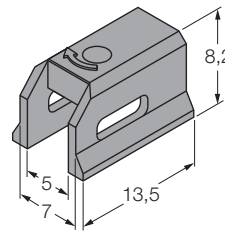


KLRC-UNT2

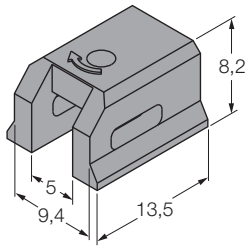
Mounting aid for ○ cylinders; Ø 25...63 mm; PA 6I/6T / nickel silver; fire-hazard classification acc. to UL94 - V2



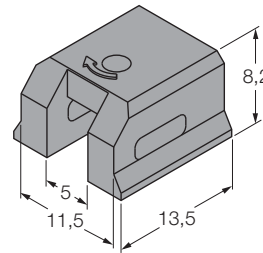
KLRC-UNT3
Mounting aid for
○ cylinders;
Ø 63...130 mm;
PA 6I/6T / nickel silver;
fire-hazard classifica-
tion acc. to UL94 - V2



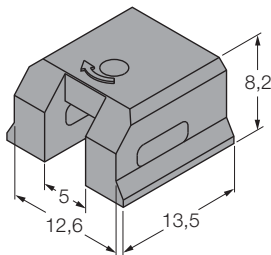
KLDT-UNT2
Mounting aid for
□ dovetail groove
cylinders; groove
width 7 mm; PPS



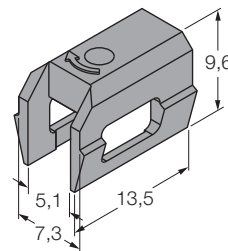
KLDT-UNT3
Mounting aid for
□ dovetail groove
cylinders; groove
width 9.4 mm; PPS



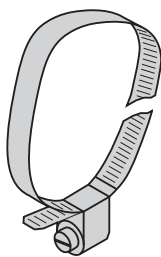
KLDT-UNT4
Mounting aid for
□ dovetail groove
cylinders; groove
width 11.5 mm; PPS



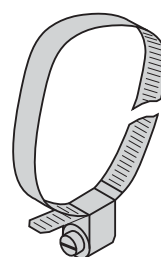
KLDT-UNT5
Mounting aid for
□ dovetail groove
cylinders; groove
width 12.6 mm; PPS



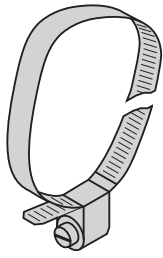
KLDT-UNT6
Mounting aid for
□ dovetail groove
cylinders; groove
width 7.35 mm; PPS



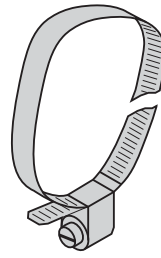
ASB-1
Clip collar to mount
BIM-UNT in combina-
tion with KLDT-UNT2
on round cylinders Ø
7...11 mm.



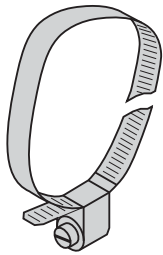
ASB-2
Clip collar to mount
BIM-UNT in combina-
tion with KLDT-UNT2
on round cylinders Ø
11...19 mm.



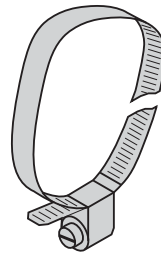
ASB-3
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 18...29 mm.



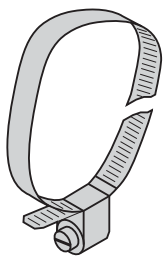
ASB-4
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 28...39 mm.



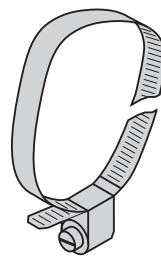
ASB-5
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 38...49 mm.



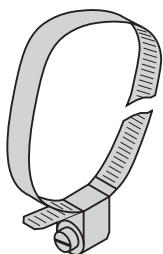
ASB-6
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 48...59 mm.



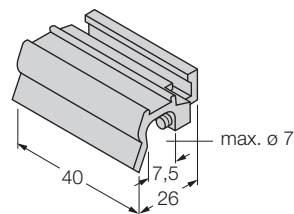
ASB-7
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 58...69 mm.



ASB-8
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 68...79 mm.



ASB-9
Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders \varnothing 78...89 mm.



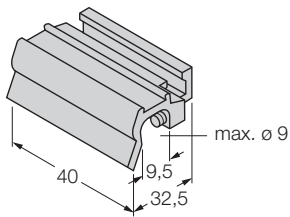
KLZ1-INT
Mounting aid for \bigcirc tie-rod cylinder \varnothing 32...40 mm; aluminium; further mounting accessories for other cylinder diameters on request

Accessories

Magnetic field sensors

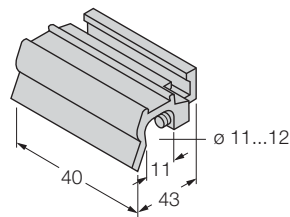
KLZ2-INT

Mounting aid for
○ tie-rod cylinder
Ø 50...63 mm;
aluminium; further
mounting accessories
for other cylinder
diameters on request



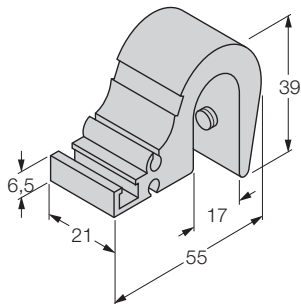
KLZ3-INT

Mounting aid for
○ tie-rod cylinder;
Ø 80...100 mm;
aluminium; further
mounting accessories
for other cylinder
diameters on request



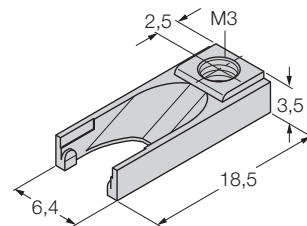
KLZ5-INT

Mounting aid for
○ tie-rod cylinder;
Ø 160...200 mm;
aluminium; further
mounting accessories
for other cylinder
diameters on request



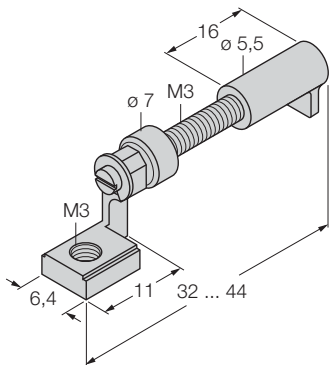
UNT-Stopper

Mounting aid for
fine-tuning of switch-
point on □ T-groove
cylinders; snap-lock
mounting in the
sensor fixture; suited
for multiple use;
plastic



UNT-Justage

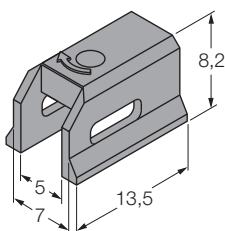
Mounting aid for
fine-tuning of switch-
point on □ T-groove
cylinders; snap-lock
mounting in the sen-
sor fixture; suited for
multiple use;
metal/plastic



Accessories for WIM

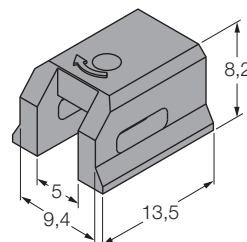
KLDT-UNT2

Mounting aid for
□ dovetail groove
cylinders; groove
width: 7 mm; PPS




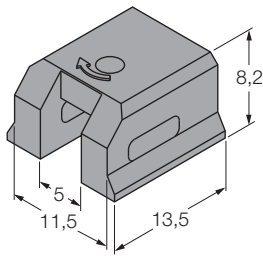
KLDT-UNT3

Mounting aid for
□ dovetail groove
cylinders; groove
width: 9.4 mm; PPS




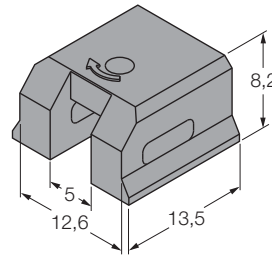
KLDT-UNT4

Mounting aid for
 dovetail groove
 cylinders; groove
 width: 11.5 mm; PPS




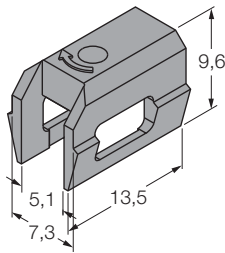
KLDT-UNT5

Mounting aid for
 dovetail groove
 cylinders; groove
 width: 12.6 mm; PPS



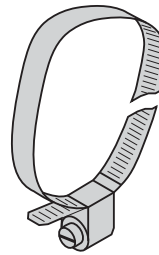
KLDT-UNT6

Mounting aid for
 dovetail groove
 cylinders; groove
 width: 7.35 mm; PPS



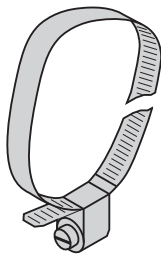
ASB-1

Clip collar to mount
 BIM-UNT in combina-
 tion with KLDT-UNT2
 on round cylinders
 Ø 7...11 mm.



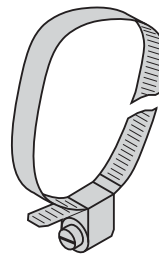
ASB-2

Clip collar to mount
 BIM-UNT in combina-
 tion with KLDT-UNT2
 on round cylinders
 Ø 11...19 mm.



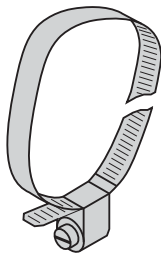
ASB-3

Clip collar to mount
 BIM-UNT in combina-
 tion with KLDT-UNT2
 on round cylinders
 Ø 18...29 mm.



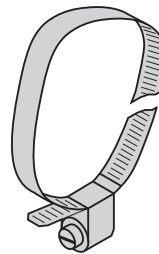
ASB-4

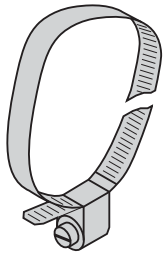
Clip collar to mount
 BIM-UNT in combina-
 tion with KLDT-UNT2
 on round cylinders
 with diameters of
 28...39 mm.



ASB-5

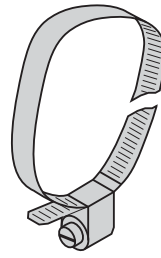
Clip collar to mount
 BIM-UNT in combina-
 tion with KLDT-UNT2
 on round cylinders
 with diameters of
 38...49 mm.





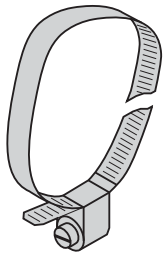
ASB-6

Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders Ø 48...59 mm.



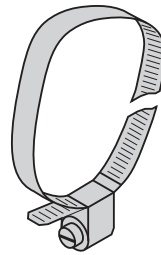
ASB-7

Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders Ø 58...69 mm.



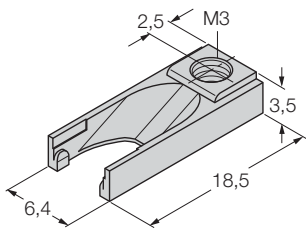
ASB-8

Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders Ø 68...79 mm.



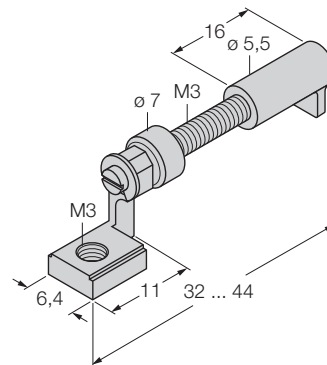
ASB-9

Clip collar to mount BIM-UNT in combination with KLDT-UNT2 on round cylinders Ø 78...89 mm.



UNT-stopper

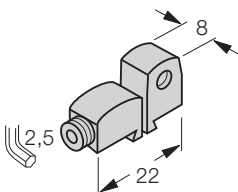
Mounting aid for fine-tuning of switch-point on T-groove cylinders; snap-lock mounting in the sensor fixture; suited for multiple use; plastic



UNT-fine adjustment

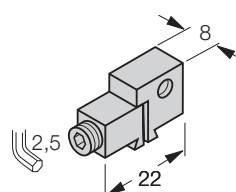
Mounting aid for fine-tuning of switch-point on T-groove cylinders; snap-lock mounting in the sensor fixture; suited for multiple use; metal/plastic

Accessories for NST



KLN 1


Clamping piece for dovetail groove cylinders or T-groove cylinders; clamping width 5.2...13.5 mm; anodized aluminium

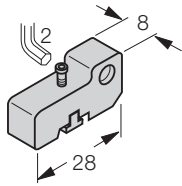


KLN 3


Clamping piece for dovetail groove cylinders or T-groove cylinders; clamping width 5.2...13.5 mm; anodized aluminium

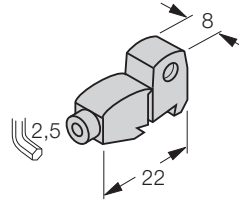
KLN-SMC

Clamping piece for
 SMC cylinders;
 clamping width 4 mm;
 anodized aluminium




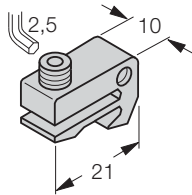
KLF 1

Clamping piece for
 external dove-
 tail grooves; for all
 cylinder diameters,
 material: Anodized
 aluminium




KLF 2

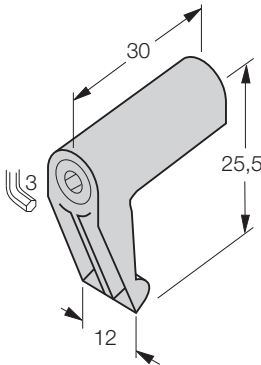
Clamping piece for
 external dovetail
 grooves (IMI Norgrem)
 or all cylinder
 diameters, anodized
 aluminium




Accessories for IKT

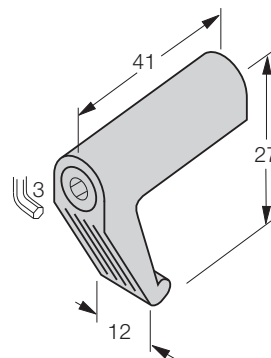
KLI 1

Clamping piece for
 tie-rod cylinders;
 Ø 32...100 mm;
 die-cast zinc




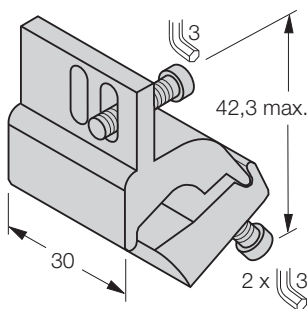
KLI 3

Clamping piece for
 tie-rod cylinders;
 Ø 63...160 mm;
 die-cast zinc




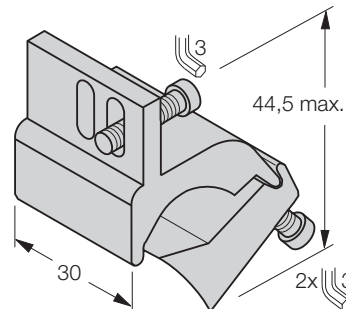
KLI 5Z

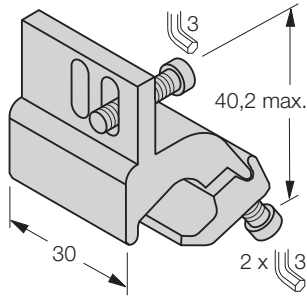
Clamping piece for
 tie-rod cylinders;
 Ø 32...63 mm;
 aluminium



KLI 6Z

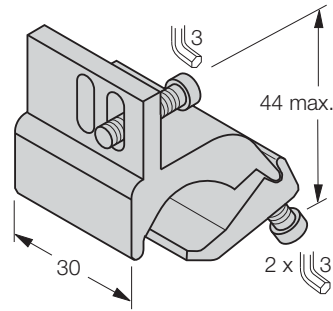
Clamping piece for
 tie-rod cylinders;
 Ø 50...125 mm;
 aluminium





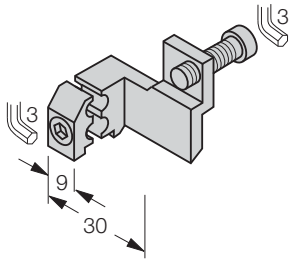
KLI 5

Clamping piece for
□ profile cylinder;
Ø 32...50 mm;
aluminium



KLI 6

Clamping piece for
□ profile cylinder;
Ø 50...100 mm;
aluminium



KLI 7

Clamping piece for
□ profile cylinder
with external dovetail
grooves; Ø 32...200
mm; aluminium

