

Actuators Series

Cartidge Cylinders
Ø 6-16 mm



CA - CAF Series

Pg. 20.3

Mini Cylinders ISO 6432
Ø 8-25 mm



Mini Series

Pg. 20.5

Mini Stainless Steel Cylinders
ISO 6432 Ø 16-25 mm



Mini Stainless Steel Series

Pg. 20.13

Limited Space
Ø 32-63 mm



A95 Series

Pg. 20.16

Compact Cylinders
Ø 12-100 mm



Q Series

Pg. 20.23

ISO 15552 Cylinders
Ø 32-125 mm



L Series

Pg. 20.36

ISO 6431 Cylinders
Ø 160-320 mm



E Series

Pg. 20.45

Stainless Steel ISO 15552 Cylinders
Ø 32-125 mm



V Series

Pg. 20.47

Twin Rod Cylinders
Ø 32-100 mm



NHA Series

Pg. 20.50

Compact Cylinders ISO 21287
Ø 20-100 mm



W Series

Pg. 20.54

Cylinder Accessories
ISO 6431 - ISO 15552 - ISO 21287



Accessories

Pg. 20.62

Magnetic Position Sensing Switches



Sensors

Pg. 20.72

Rodless Actuators Series

Rodless Cylinders Standard Version



S1 Series

Pg. 20.78

Rodless Cylinder with Integrated
Guides in Tecnopolymer



S5 Series

Pg. 20.87

Click here to view the **Actuators Series** on our Website

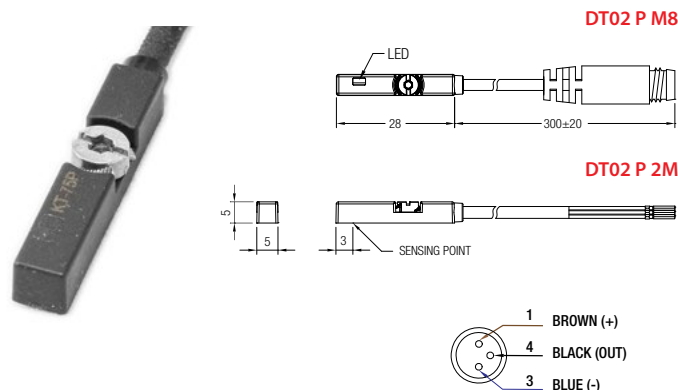
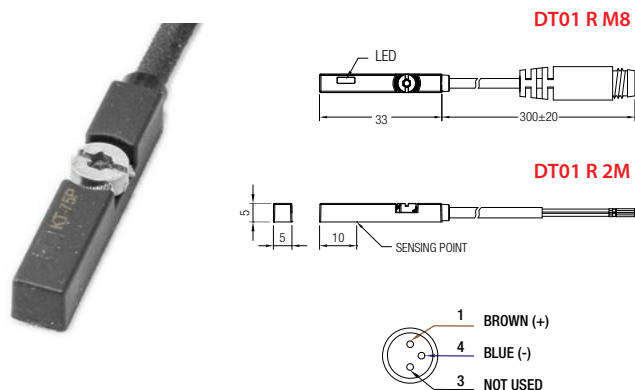


PNEUMATIC ACTUATORS

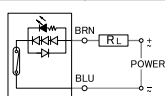


Actuators Series

SERIES DT - MAGNETIC SWITCHES



Code	Code
DT01 R 2M	DT01 R M8



Connection	ø 2.8 - 2 WIRE PU - 2MT	ø 2.8 - 2 WIRE PU - M8 CONNECTOR
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Switching logic	SPST. Normally open
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Sensor type	Reed Switch
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Voltage Range	5÷240V DC/AC
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Switching current	100 mA max
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Contact rating	10W max
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Max voltage drop	0.3V
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Output status indicator	RED LED
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Operating frequency	200 Hz
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Working temperature	-10 / + 70 °C 14 / 158 °F
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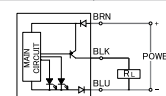
Shock	30 G
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Vibration	9 G
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Protection degree	IEC 60529 IP67
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Protection Circuit	NO
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Code	Code
DT02 P 2M	DT02 P M8



Connection	ø 2.8 - 3 WIRE PU - 2MT	ø 2.8 - 3 WIRE PU - M8 CONNECTOR
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Switching logic	Solid State Output. Normally open
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Sensor type	PNP Current Sourcing
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Voltage Range	10÷28V DC
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Switching current	80 mA max
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Contact rating	2W max
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Max voltage drop	10mA @ 24 V DC max
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Max voltage drop	1.5V max
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Leakage current	0.05mA max
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Output status indicator	RED/GREEN LED
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Operating frequency	1000 Hz
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Magnetic requirement	50 Gauss
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Working temperature	-10 / + 60 °C 14 / 140 °F
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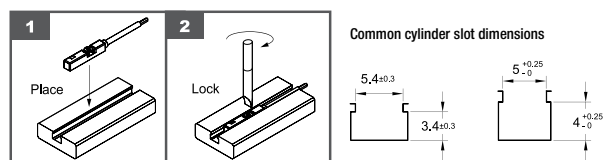
Shock	50 G
-------	------

Vibration	9 G
-----------	-----

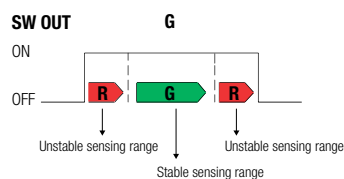
Protection degree	IEC 60529 IP67
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Quick Installation



Dual color LED allows more precise positioning.



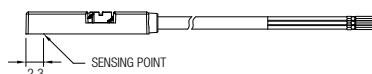
SERIES DTEX - ATEX SWITCHES



CE ATEX APPROVAL
(Baseefa14ATEX0118)



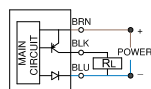
II 3GDEx ic IIB T4 Gc (-10°C ≤ Ta ≤ +70°C)
Ex ic IIB T135 °C Dc (-10°C ≤ Ta ≤ +70°C)



DTEX03 P 2M

Code

DTEX03 P 2M



Connection

ø 2.8 - 3WIRE
PU - 2 MT

Switching logic

Solid State Output. Normally open

Sensor type

PNP Current Sourcing

Voltage Range

10÷28 V DC

Switching current

200 mA max

Contact rating

5.5 W max

Max voltage drop

10 mA @ 24 V DC max

Max voltage drop

1.5 V @ 50mA max

Leakage current

0.05 mA max

Output status indicator

RED YELLOW

Operating frequency

1000 Hz

Magnetic requirement

50 Gauss

Working temperature

-10 / + 70 °C
14 / 158 °F

Shock

50 G

Vibration

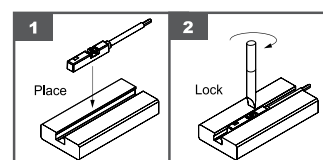
9 G

Protection degree

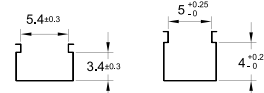
IEC 60529 IP67



Quick Installation

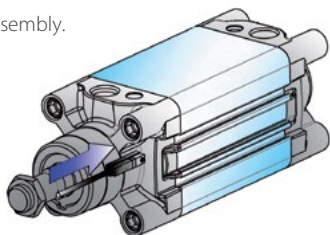


Common cylinder slot dimensions

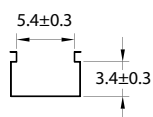


SERIES DSL - MAGNETIC SWITCHES

DSL sensor lengthwise assembly.



Common cylinder slot dimensions



	Code DSL1 C 225	Code DSL1 M8	Code DSL4 N 225	Code DSL4 M8
Circuit diagram				
Connection	2 WIRE PVC - 2.5 MT	2 WIRE PVC - 0.3 MT - M8 CONNECTOR	3 WIRE PVC - 2.5 MT	3 WIRE PVC - 0.3 MT - M8 CONNECTOR
Switching logic	N.O.			
Sensor type	REED	REED	PNP - HALL	PNP - HALL
Voltage Range	3-130 V AC/DC	3-130 V AC/DC	10-30 V DC	10-30 V DC
Max current at 25°C (77 °F)	50 mA	50 mA	200 mA	200 mA
Max power/Resistive load	10 W	10 W	6 W	6 W
Max voltage drop	3.2 V	3.2 V	0.8 V	0.8 V
Output status indicator	YELLOW LED			
Response time	0.5 ms max	0.5 ms max	0.2 ms max	0.2 ms max
Decay time	0.1 ms max			
Electric life (resistive load)	4x10 ⁷			
Working temperature	-20 / +70 °C -4 / 158 °F			
Protection degree	IP 68			
Short circuit	NO			
Type of mounting to the cylinder	Longitudinal only			

BRACKET FOR DSL TO USE WITH MINI CYLINDERS ISO 6432 AND A95 SERIES CYLINDERS

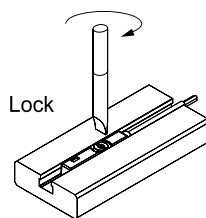
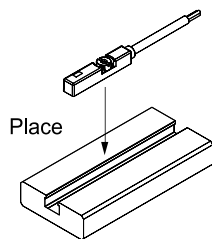
Code	Ø	F = Ø	A	B
MFX 008	8	9.4 mm	14	8
MFX 010	10	11.3 mm	14	8
MFX 012	12	13.3 mm	14	8
MFX 016	16	17.3 mm	14	8
MFX 020	20	21.3 mm	14	8
MFX 025	25	26.3 mm	14	8

Code	Ø	F = Ø	A	B
AFX 032	32	33.5 mm	14	8
AFX 040	40	41.5 mm	14	8
AFX 050	50	52 mm	14	8
AFX 063	63	65 mm	14	8

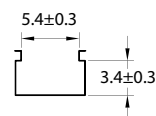


SERIES DSH - MAGNETIC SWITCHES

DSH sensors with axial or l
inserting slot.



Common cylinder slot dimensions



Code
DSH2 R 2F 20

Code
DSH2 R 2F M8

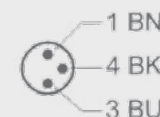
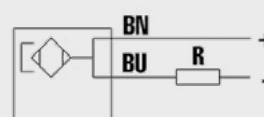
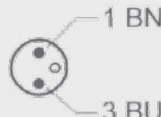
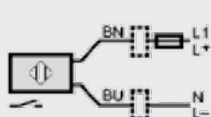
Code
DSH4 H 3F 20



Code
DSH4 H 3F M8



Circuit diagram



Connection

2 WIRE
PVC - 2 MT

2 WIRE
PVC - 0.3 MT - M8 CONNECTOR

3 WIRE
PUR - 2 MT

3 WIRE
PUR - 0.3 MT - M8 CONNECTOR

Switching logic

N.O.

Sensor type

REED

REED

PNP - HALL

PNP - HALL

Voltage Range

5-120 V AC/DC

5-120 V AC/DC

10-30 V DC

10-30 V DC

Max current at 25°C (77 °F)

100 mA

Max power/Resistive load

10 W

10 W

-

-

Max voltage drop

< 5 V

< 5 V

< 2.5 V

< 2.5 V

Output status indicator

YELLOW LED

Response time

0.5 ms max

0.5 ms max

-

-

Decay time

0.1 ms max

0.1 ms max

< 30 ms

< 30 ms

Electric life (resistive load)

10⁷

10⁷

INFINITE

INFINITE

Working temperature

-20 / + 70 °C
-4 / 158 °F

-25 / + 85 °C
-13 / 185 °F

Protection degree

IP 67

Short circuit

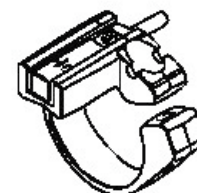
NO

Type of mounting to the cylinder

Axial and longitudinal

BRACKET FOR DSH TO USE WITH MINI CYLINDERS ISO 6432

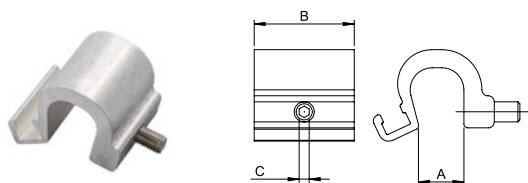
Code	Ø	F = Ø
MFH 012	12	13.3 mm
MFH 016	16	17.3 mm
MFH 020	20	21.3 mm
MFH 025	25	26.3 mm



ACCESSORIES

EXF

BRACKET FOR DSL - DSH - DT SENSORS



Code	Ø	A	B	C
EXF032	32 - 40	7.5	25	2
EXF050	50 - 63	11.3	25	2.5
EXF080	80 - 100 - 125	15.3	25	2.5
EXF160	160 - 200 - 250	20	25	2.5

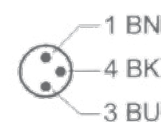
PX

STRAIGHT THREE WIRES EXTENSION MAGNETIC FOR SWITCHES



Code	Lunghezza - Length - Länge Longueur - Longitud - Comprimento
PX 2000 PUR	2 MT 2
PX 5000 PUR	5 MT 2.5

Schema circuito
Circuit diagram
Schaltplan
Schéma
Esquema Circuito
Schema circuito



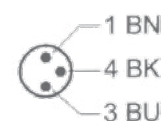
PX

"L" THREE WIRES EXTENSION MAGNETIC FOR SWITCHES



Code	Lunghezza - Length - Länge Longueur - Longitud - Comprimento
PX 20001 PUR	2 MT 2
PX 50001 PUR	5 MT 2.5

Schema circuito
Circuit diagram
Schaltplan
Schéma
Esquema Circuito
Schema circuito



DC

SENSOR DC ADAPTER



DC 00 001



DC 10 001

Directive 2014/34/UE (ATEX)

The Pneumatic Cylinders: Cartridge, Mini Cylinders ISO 6432, Stainless steel Mini Cylinders, A95, Compact (Q - W), Short Stroke (B), Series X ISO 15552, Series E ISO 6431, Twin-piston rod Series NHA ISO 15552 and Series P ISO 15552 show the following features:

II 2 GD c T6 -20°C<Tamb<80°C

II 2 GD: Device for surface installations (II = do not use device in mining) with presence of gas, vapors of powders of category 2 (equipment with high safety factor since it excludes danger of explosion, even in case of damage; it can be used in areas with possible explosive environments).

c: Devices are constructively safe

T6 – 10°C<Tamb<60°C: Surface temperature class and additional marking for T usage environment.



 TECHNICKÁ INŠPEKCIA, a.s. SLOVENSKÁ REPUBLIKA						
ACKNOWLEDGEMENT OF RECEIPT no. 564/5/2015						
Technická inšpekcia, a. s., Trnavská cesta 56, 821 01 Bratislava Notified body: 1354,						
confirms, that Technical File Documentation prepared by Aignep S.p.A. Via Don G. Bazzoli 34, 25070 Bione (BS), Italy						
has been received and stored according to the Directive 94/9/EC (ATEX) on equipment and protective systems intended for use in potentially explosive atmospheres						
Scope of Ex Equipment: Cylinders Types: Cartridge Cylinders, Mini Cylinders ISO 6432, Mini Cylinders inox, A95 Cylinders, Compact Cylinders, Short Stroke Cylinders, Cylinders X ISO 15552, Cylinders E ISO 6431, Twin Piston Rod Cylinders NHA ISO 15552, Cylinders P ISO 15552						
Classification:  II 2 GD c T6 - 20°C<Tamb<80°C						
Technical File Documentation						
<table border="1"> <tr> <th>Doc. no.</th> <th>Issue</th> </tr> <tr> <td>Technical Book According to 94/9/EC</td> <td>10/3/15 Rev.0</td> </tr> </table>		Doc. no.	Issue	Technical Book According to 94/9/EC	10/3/15 Rev.0	
Doc. no.	Issue					
Technical Book According to 94/9/EC	10/3/15 Rev.0					
Technical documentation will be stored for 10 years until March 25 th , 2025.						
Bratislava, March 25 th , 2015						
		On behalf of Technická inšpekcia, a.s.  Ing. Dušan Konický General Director				
271018 PDOKA1-41						

See Instructions and Certificate at:

www.aignep.com