AIGNEP

Actuator Series

Cartridge 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 Actuator Series

Rodless Cylinders Standard Version



S1 Series
Pg. 20.82

Rodless Cylinder with Integrated Guides in Technopolymer



S5 Series
Pg. 20.91

Click here to view the Actuator Series on our Website

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PNEUMATIC ACTUATORS



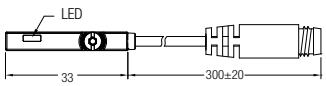
Actuator Series

P.A.

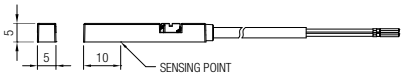
SERIES DT - MAGNETIC SWITCHES

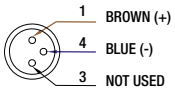
DT01 R M8





DT01 R 2M





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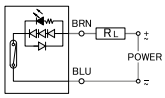
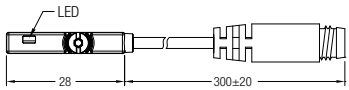
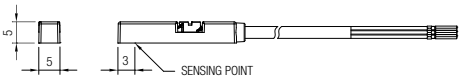
		
Connection	ø 2.8 - 2 WIRE PU - 2MT	ø 2.8 - 2 WIRE PU - M8 CONNECTOR
Switching logic	SPST. Normally open	
Sensor type	Reed Switch	
Voltage Range	5÷240V DC/AC	
Switching current	100 mA max	
Contact rating	10W max	
Max voltage drop	0.3V	
Output status indicator	RED LED	
Operating frequency	200 Hz	
Working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

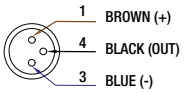
DT02 P M8





DT02 P 2M





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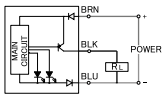
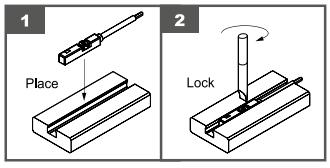
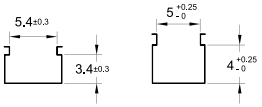
		
Connection	ø 2.8 - 3 WIRE PU - 2MT	ø 2.8 - 3 WIRE PU - M8 CONNECTOR
Switching logic	Solid State Output. Normally open	
Sensor type	PNP Current Sourcing	
Voltage Range	10÷28V DC	
Switching current	80 mA max	
Contact rating	2W max	
Max voltage drop	10mA @ 24 V DC max	
Max voltage drop	1.5V max	
Leakage current	0.05mA max	
Output status indicator	RED/GREEN LED	
Operating frequency	1000 Hz	
Magnetic requirement	50 Gauss	
Working temperature	14 / 140 °F -10 / 60 °C	
Shock	50 G	
Vibration	9 G	
Protection degree	IEC 60529 IP67	

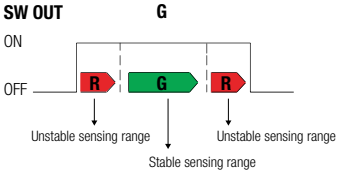
Quick Installation



Common cylinder slot dimensions



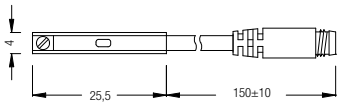
Dual color LED allows more precise positioning.



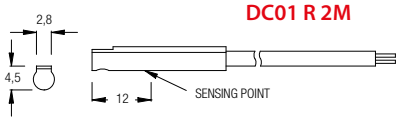
SERIE DC - MAGNETIC SWITCHES

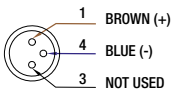
DC01 R M8





DC01 R 2M





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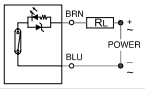
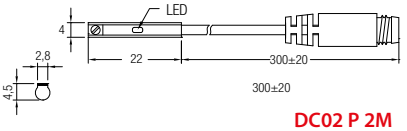
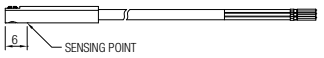
		
Connection	ø 2,8 - 2 WIRE PUR - 2MT	ø 2,8 - 2 WIRE PUR - M8 CONNECTOR
Switching logic	SPST, Normally open	
Sensor type	Reed Switch	
Voltage Range	5÷120 V DC/AC	
Switching current	100 mA max	
Contact rating	100W max	
Max voltage drop	3,0 V	
Output status indicator	Red Led	
Operating frequency	200 Hz	
Magnetic requirement	70 Gauss	
Working Temperature	-10 °C + 70 °C	
Shock	30 G	
Vibration	9 G	
Protection degree	IEC 60529 IP67	
Protection Circuit	NO	

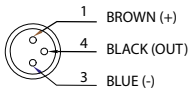
DC02 P M8





DC02 P 2M





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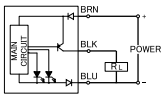
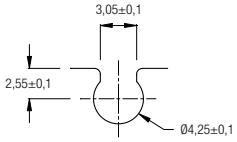
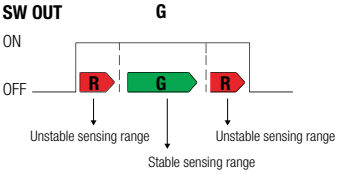
		
Connection	ø 2,8 - 3WIRE PUR - 2MT	ø 2,8 - 3 WIRE PUR - M8 CONNECTOR
Switching logic	Solid State Output, Normally open	
Sensor type	PNP Current Sourcing	
Voltage Range	10÷28V DC	
Switching current	80 mA max	
Contact rating	2W max	
Current consumption	10mA @ 24 V DC max	
Max voltage drop	1,5V max	
Leakage current	0,05mA max	
Output status indicator	Red/Green Led	
Operating frequency	1000 Hz	
Magnetic requirement	40 Gauss	
Working Temperature	-10 °C + 60 °C	
Shock	50 G	
Vibration	9 G	
Protection degree	IEC 60529 IP67	

Sensor cave

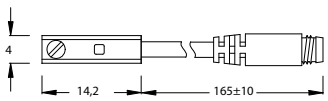


Dual color LED allows more precise positioning.

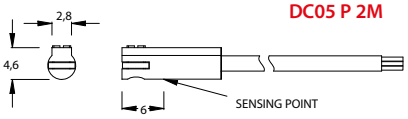


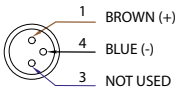


DC05 P M8



DC05 P 2M





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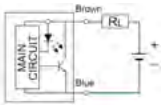
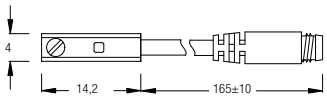
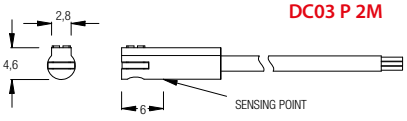
		
Connection	ø 2,6 - 2 WIRE PVC - 2MT	ø 2,6 - 2 WIRE PVC - M8 CONNECTOR
Switching logic	Solid State Output, Normally open	
Sensor type	-	
Voltage Range	4,5÷28V DC	
Switching current	50 mA max	
Contact rating	1,5V max	
Current consumption	-	
Max voltage drop	3,5V max	
Leakage current	0,1 mA max	
Output status indicator	Red Led	
Operating frequency	1000 Hz	
Magnetic requirement	40 Gauss	
Working Temperature	-10 °C + 70 °C	
Shock	50 G	
Vibration	9 G	
Protection degree	IEC 60529 IP67	

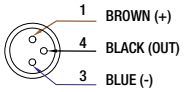


DC03 P M8



DC03 P 2M





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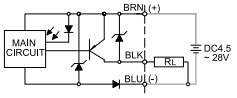
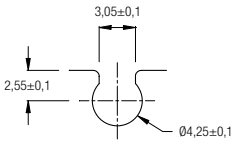
		
Connection	ø 2,6 - 3 WIRE PVC - 2MT	ø 2,6 - 3WIRE PVC - M8 CONNECTOR
Switching logic	Solid State Output, Normally open	
Sensor type	PNP Current Sourcing	
Voltage Range	4,5÷28V DC	
Switching current	50 mA max	
Contact rating	1,5W max	
Current consumption	10mA @ 24 V DC max	
Max voltage drop	0,5V @ 50mA max	
Leakage current	0,01 mA max	
Output status indicator	Red Led	
Operating frequency	1000 Hz	
Magnetic requirement	40 Gauss	
Working Temperature	-10 °C + 70 °C	
Shock	50 G	
Vibration	9 G	
Protection degree	IEC 60529 IP67	

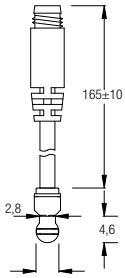
Sensor cave



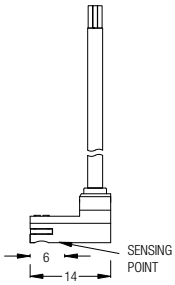
SERIE DC - MAGNETIC SWITCHES

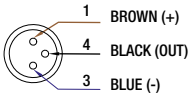


DC04 P M8

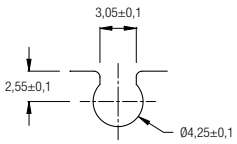


DC04 P 2M





Sensor cave



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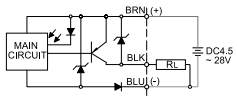
		
Connection	ø 2,6 - 3 WIRE PVC - 2MT	ø 2,6 - 3 WIRE PVC - M8
Switching logic	Solid State Output, Normally open	
Sensor type	PNP Current Sourcing	
Voltage Range	4,5÷28V DC	
Switching current	50 mA max	
Contact rating	1,5W max	
Current consumption	10mA @ 24 V DC max	
Max voltage drop	0,5V @ 50mA max	
Leakage current	0,01 mA max	
Output status indicator	Red Led	
Operating frequency	1000 Hz	
Magnetic requirement	40 Gauss	
Working Temperature	-10 °C + 70 °C	
Shock	50 G	
Vibration	9 G	
Protection degree	IEC 60529 IP67	

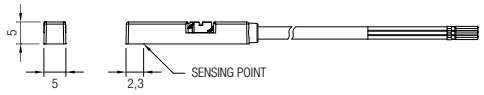
SERIES DTEX - ATEX SWITCHES

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



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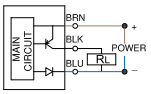
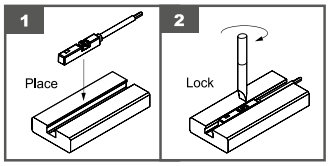
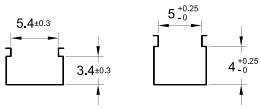
	
Connection	ø 2.8 - 3WIRE PU - 2 MT
Switching logic	Solid State Output. Normally open
Sensor type	PNP Current Sourcing
Voltage Range	10÷28 V DC
Switching current	200 mA max
Contact rating	5.5 W max
Max voltage drop	10 mA @ 24 V DC max
Max voltage drop	1.5 V @ 50mA max
Leakage current	0.05 mA max
Output status indicator	RED YELLOW
Operating frequency	1000 Hz
Magnetic requirement	50 Gauss
Working temperature	14 / 158 °F -10 / 70 °C
Shock	50 G
Vibration	9 G
Protection degree	IEC 60529 IP67

Quick Installation

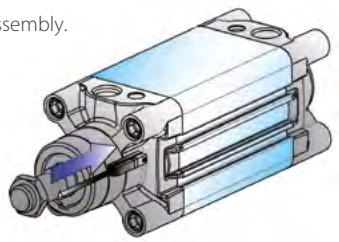


Common cylinder slot dimensions

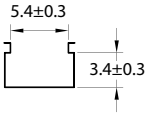


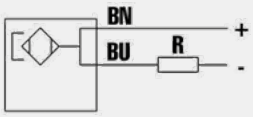
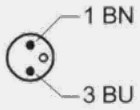
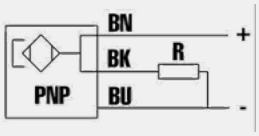
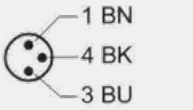
SERIES DSL - MAGNETIC SWITCHES

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 77 °F (25 °C)	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	-4 / 158 °F -20 / 70 °C			
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

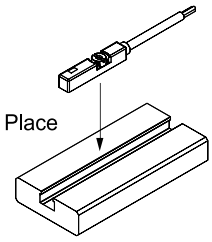
Code	Ø	F = Ø	A	B
MFX 008	8	9.4 mm	14	8
MFX 010	10	11.3 mm	14	8
MFX 012	12	13.3 mm	14	8
MFX 016	16	17.3 mm	14	8
MFX 020	20	21.3 mm	14	8
MFX 025	25	26.3 mm	14	8

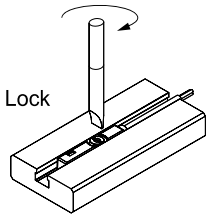
Code	Ø	F = Ø	A	B
AFX 032	32	33.5 mm	14	8
AFX 040	40	41.5 mm	14	8
AFX 050	50	52 mm	14	8
AFX 063	63	65 mm	14	8



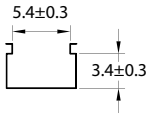
SERIES DSH - MAGNETIC SWITCHES

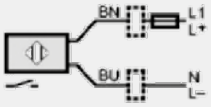
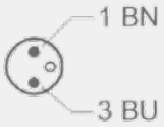
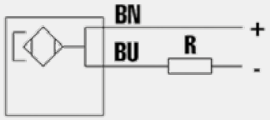
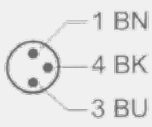
DSH sensors with axial or l
inserting slot.





Common cylinder slot dimensions

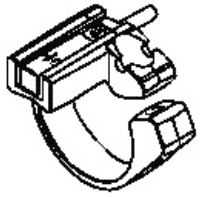


	Code DSH2 R 2F 20	Code DSH2 R 2F M8	Code DSH4 H 3F 20	Code DSH4 H 3F M8
					
Circuit diagram				
Connection	2 WIRE PVC - 2 MT	2 WIRE PVC - 0.3 MT - M8 CONNECTOR	3 WIRE PUR - 2 MT	3 WIRE PUR - 0.3 MT - M8 CONNECTOR
Switching logic	N.O.			
Sensor type	REED	REED	PNP - HALL	PNP - HALL
Voltage Range	5-120 V AC/DC	5-120 V AC/DC	10-30 V DC	10-30 V DC
Max current at 77 °F (25 °C)	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)	10^7	10^7	INFINITE	INFINITE
Working temperature	-4 / 158 °F -20 / 70 °C		-13 / 185 °F -25 / 85 °C	
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



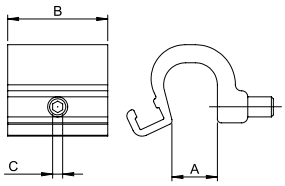


ACCESSORIES

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

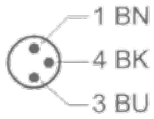
PX

STRAIGHT THREE-WIRE 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



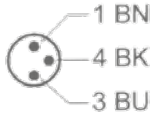
PX

"L" THREE-WIRE 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
CEOC INTERNATIONAL

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: Ex II 2 GD c T6 - 20°C<Tamb<80°C

Technical File Documentation

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 25th, 2025.

Bratislava, March 25th, 2015

TECHNICKÁ INŠPEKCIA SLOVENSKÁ REPUBLIKA TI NB 1354 - 5 -

On behalf of Technická inšpekcia, a.s.
Ing. Dušan Konický
General Director

271018
PDOKA1-41

See Instructions and Certificate at:
www.aignep.com