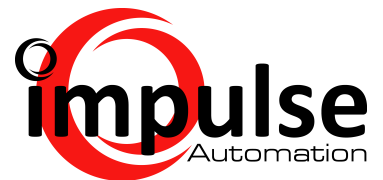




SERIE

SHORT

MINICILINDRI SHORT
SHORT MICRO CYLINDERS



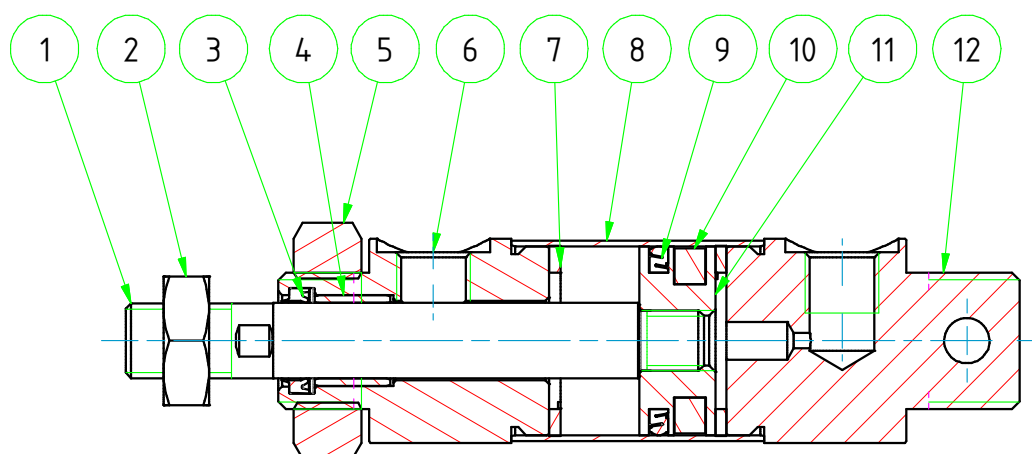
Email: sales@impulseautomation.co.uk
Website: www.impulseautomation.co.uk

CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS

Pressione di esercizio <i>Working pressure</i>	1 ÷ 10 bar
Temperatura di esercizio <i>Working temperature</i>	0 ÷ +80°C (-20°C con aria secca - <i>with dry air</i>) 0 ÷ +150°C (con guarnizioni per alte temperature - <i>with high temperature seals</i>)
Versioni - Versions	doppio effetto - <i>double acting</i>
Alesaggi - Bores	ø 16 - 20 - 25
Corse - Strokes	vedere tabelle corse standard - <i>see standard stroke tables</i>
Fluido - Fluid	aria compressa filtrata, non lubrificata - <i>compressed filtered, non lubricated air</i>

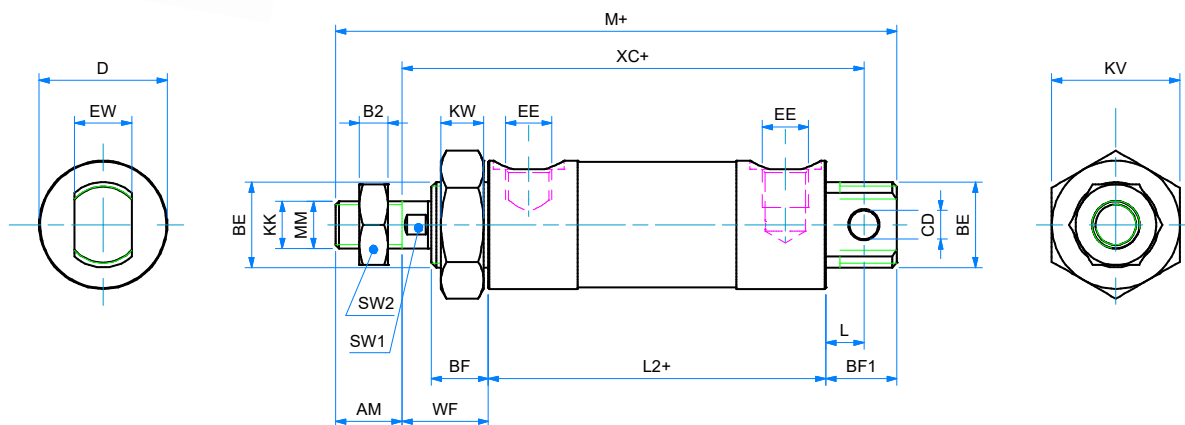
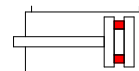
CARATTERISTICHE COSTRUTTIVE - CONSTRUCTIVE CHARACTERISTICS

①	Stelo - Rod	acciaio inox AISI 303 - <i>AISI 303 stainless steel</i>
② ⑤	Dado - Nut	acciaio zincato - <i>zinc coated steel</i>
③	Guarnizione stelo - Rod seal	poliuretano - <i>polyurethane</i>
④	Boccola - Bush	tecno polimero - <i>technopolymer</i>
⑥ ⑫	Testate - Covers	alluminio anodizzato - <i>anodized aluminium</i>
⑦	Paracolpo - Bumper	neoprene
⑧	Tubo - Tube	acciaio inox AISI 304 - <i>AISI 304 stainless steel</i>
⑨	Guarnizioni pistone - Piston seals	NBR
⑩	Magnete - Magnet	plastroferrite - <i>rubber magnet</i>
⑪	Pistone - Piston	alluminio - <i>aluminium</i>



DOPPIO EFFETTO MAGNETICO

DOUBLE ACTING MAGNETIC



Note: dado stelo e dado testa compresi nella fornitura
Note: rod nut and nose nut included in the supply

DIMENSIONI - DIMENSIONS

Ø	16	20	25
AM	12	12	14
B2	4	5	6
BE	M12X1.25	M16X1.5	M18X1.5
BF	10	12	12
BF1	10	13	15
CD	4	6	6
D	19	24	27
EE	M5	1/8"G	1/8"G
EW	8	12	12
KK	M6	M8x1.25	M10x1.25
KV	19	22	27
KW	7	6	9
L	6	7	8
L2+	49.5	60.5	61
M+	85	101.5	108
øMM	6	8	10
SW1	5	7	9
SW2	10	13	17
WF	13.5	16	18
XC+	69	83,5	87

+ = lunghezza corsa - stroke length

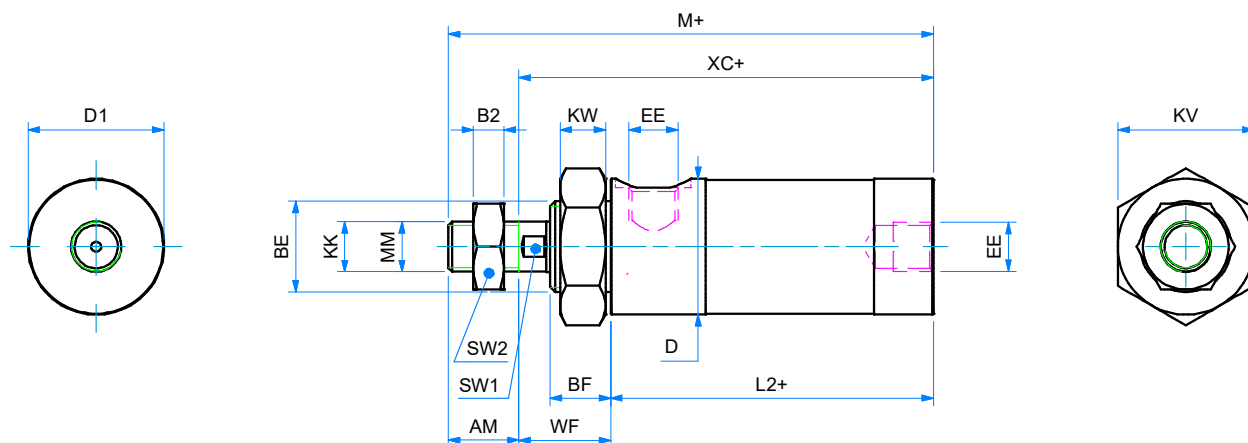
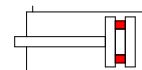
Ø CORSE STANDARD - STANDARD STROKES

016	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320
020	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320
025	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320

DOPPIO EFFETTO MAGNETICO TESTATA CORTA ALIMENTAZIONE IN ASSE

O2DM

DOUBLE ACTING MAGNETIC SHORT HEAD CONNECTION ON AXIS



Note: dado stelo e dado testa compresi nella fornitura
Note: rod nut and nose nut included in the supply

DIMENSIONI - DIMENSIONS

Ø	16	20	25
AM	12	12	14
B2	4	5	6
BE	M12x1.25	M16x1.5	M18x1.5
BF	10	12	12
D	19	24	27
D1	18	22,2	27
EE	M5	1/8"G	1/8"G
KK	M6	M8x1.25	M10x1.25
KV	19	22	27
KW	7	6	9
L2+	43,5	53	54
M+	69	81	86
MM	6	8	10
SW1	5	7	9
SW2	10	13	17
WF	13.5	16	18
XC+	57	69	72
WF	13.5	16	18
XC+	69	83,5	87

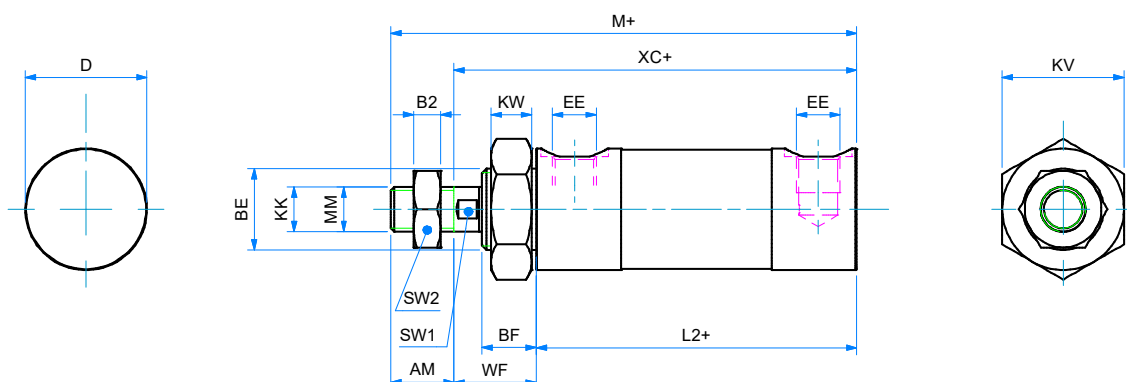
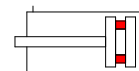
+ = lunghezza corsa - stroke length

Ø CORSE STANDARD - STANDARD STROKES

Ø16	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320
Ø20	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320
Ø25	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320

DOPPIO EFFETTO MAGNETICO TESTA CORTA ALIMENTAZIONE 90°

DOUBLE ACTING MAGNETIC SHORT HEAD CONNECTION AT 90°



DIMENSIONI - DIMENSIONS

Ø	16	20	25
AM	12	12	14
B2	4	5	6
BE	M12x1.25	M16x1.5	M18x1.5
BF	10	12	12
D	19	24	27
EE	M5	1/8"G	1/8"G
KK	M6	M8x1.25	M10x1.25
KV	19	22	27
KW	7	6	9
L2+	43,5	53	54
M+	75	88,5	93
øMM	6	8	10
SW1	5	7	9
SW2	10	13	17
WF	13.5	16	18
XC+	63	76,5	79
SW2	10	13	17
WF	13.5	16	18
XC+	69	83,5	87

Note: dado stelo e dado testa compresi nella fornitura

Note: rod nut and nose nut included in the supply

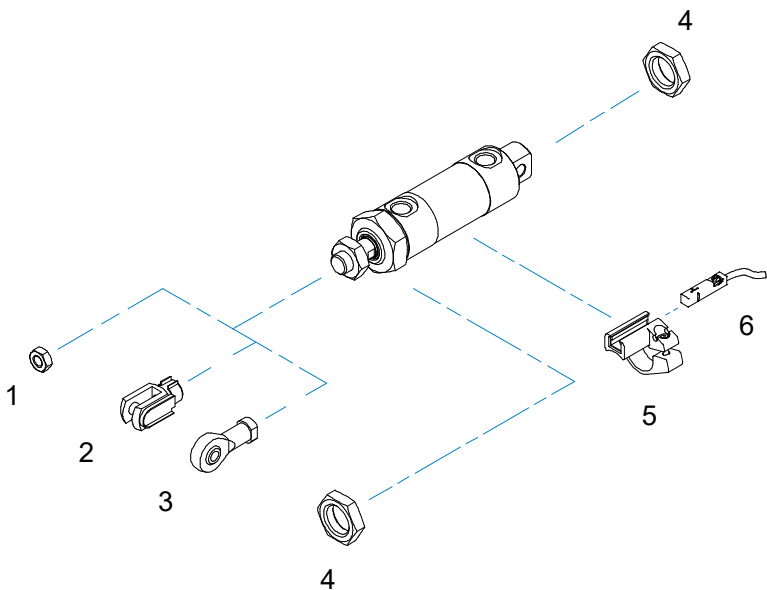
+ = lunghezza corsa - stroke length

Ø CORSE STANDARD - STANDARD STROKES

Ø16	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320
Ø20	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320
Ø25	10 - 25 - 40 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320

ACCESSORI DI FISSAGGIO

MOUNTING PARTS

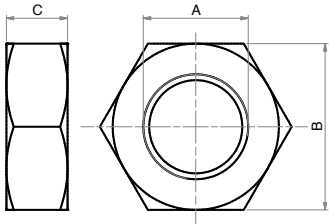


POS.	CODE	DESCRIZIONE - DESCRIPTION
1	DA--x---	dado stelo - rod nut
2	FC--x---	forcella con clips - clevis with lockable pin
3	SSFI--x---	snodo sferico - rod eye
4	DAT---,---	dado testata - nose nut
5	36.TIRM--	adattatore sensore - sensor mounting
6	36-SEN---	sensore magnetico - magnetic sensor

DADO STELO

DA

PISTON ROD NUT



DIMENSIONI - DIMENSIONS			
COD.	DA06x1	DA08x1,25	DA10x1,25
A	M6	M8	M10x1,25
B	10	13	17
C	4	5	6

MATERIALE: ACCIAIO ZINCATO
MATERIAL: ZINC COATED STEEL

FORCELLA CON CLIPS

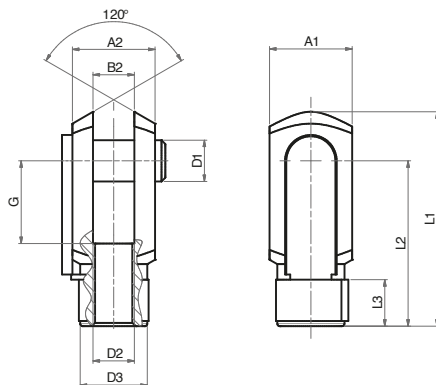
FC

CLEVIS WITH LOCKABLE PIN



LA FORNITURA COMPRENDE:
n° 1 FORCELLA
n° 1 CLIPS
THE SUPPLY INCLUDES:
n° 1 FORK
n° 1 LOCKABLE PIN

MATERIALE: ACCIAIO ZINCATO
MATERIAL: ZINC COATED STEEL



DIMENSIONI - DIMENSIONS

COD.	FC06x1	FC08x1,25	FC10x1,25
A1	12	16	20
A2	12	16	20
B2	6	8	10
G	12	16	20
L1	31	42	52
L2	24	32	40
L3	9	12	15
ø D1	6	8	10
ø D2	M6x1	M8x1,25	M10x1,25
ø D3	10	14	18

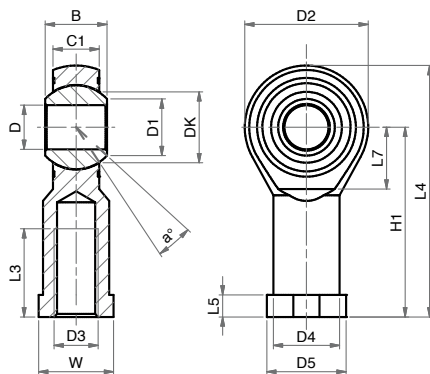
SNODO SFERICO FILETTO INTERNO

SSFI

ROD EYE (INTERNAL THREAD)



MATERIALE:
CORPO IN ACCIAIO ZINCATO
SNODO IN ACCIAIO,
BRONZO E PTFE
MATERIAL:
BODY IN ZINC COATED STEEL
EYE IN STEEL, BRONZE
AND PTFE



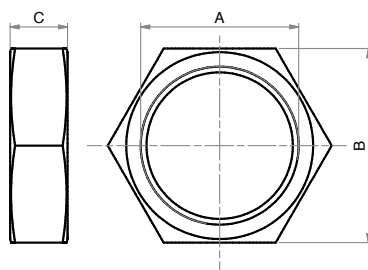
DIMENSIONI - DIMENSIONS

COD.	SSFI06x1	SSFI08x1,25	SSFI10x1,25
α°	13	14	13
B	9	12	14
C1	6,75	9	10,5
D1	8,9	10,4	12,9
D2	20	24	28
D3	M6	M8	M10x1,25
D4	10	12,5	15
D5	13	16	19
DK	12,7	15,87	19,05
D	6	8	10
H1	30	36	43
L3	12	16	20
L4	40	48	57
L5	5	5	6,5
L7	11	13	15
W	11	14	17

DADO TESTATA (MR3)

DAT

NOSE NUT (MR3)



DIMENSIONI - DIMENSIONS

COD.	DAT016SHORT	DAT020SHORT	DAT025SHORT
A	M12x1,25	M16x1,5	M18x1,5
B	19	22	27
C	7	6	9

MATERIALE: ACCIAIO ZINCATO
MATERIAL: ZINC COATED STEEL

SENSORI MAGNETICI

MAGNETIC SENSORS

CARATTERISTICHE - CHARACTERISTICS				
CODICE - CODE	36.SEN06 36.SEN06.L6	36.SEN07	36.SEN08	36.SEN09 36.SEN09.L6 36.SEN09.L10
TIPO - TYPE	REED	REED	ELETTRONICO ELECTRONIC	ELETTRONICO ELECTRONIC
Modello elettrico - Electrical design	AC/DC PNP/NPN	AC/DC PNP/NPN	DC PNP	DC PNP
Funzione dell'uscita - Output	NO	NO	NO	NO
Tensione di esercizio - Operating voltage	[V] 5...120 AC/DC	5...60 DC / 5...50 AC	10...30 DC	10...30 DC
Capacità di corrente - Current rating	[mA] 100*	100*	100	100
Sensibilità di reazione - Magnetic sensitivity	[mT] 2,1	2,1	2,8	2,8
Velocità di passaggio - Travel speed	[m/s] > 10	> 10	> 10	> 10
Protezione da cortocircuito - Short-circuit proof	no	no	si - yes	si - yes
Protetto da inversione di polarità Reverse polarity protection	si - yes	si - yes	si - yes	si - yes
Resistente a sovraccarico - Overload protection	no	no	si - yes	si - yes
Caduta di tensione - Voltage drop	[V] < 5	< 5	< 2,5	< 2,5
Isteresi - Hysteresis	1	1	< 1,5	< 1,5
Riproducibilità - Repeatability	[mm] ± 0,2	± 0,2	< 0,2	< 0,2
Corrente assorbita - Current consumption	[mA] -	-	< 10	< 10
Tempo di commutazione - Make time	[ms] ≤ 0,6	≤ 0,6	-	-
Tempo di riapertura - Fall time	[ms] ≤ 0,1	≤ 0,1	-	-
Potenza max - Switching power max	[W] 10	10	-	-
Cicli di commutazione con connessione a PLC Switching cycles when connected to PLC	[mln] ≤ 40	≤ 40	-	-
Frequenza di commutazione - Switching frequency	[Hz] 1.000	1.000	> 10.000	> 10.000
Temperatura ambiente - Ambient temperature	[°C] -25...70	-25...70	-25...80	-25...80
Grado/Classe di protezione - Protection	IP67, II	IP67, II	IP67, III	IP67, III
Materiale involucro - Housing material	PA (poliammide - polyamide)			
Materiale eccentrico di fissaggio - Fastening clamp	inox - stainless steel			
Indicazione della funzione Stato di commutazione Function display Switching status	LED	giallo - yellow		
Collegamento - Connection	cavo PUR - PUR cable 2x0,14 mm² 2 m (.L6 = 6 m)	cavo PUR - PUR cable connettore M8- M8 connector 0,3 m	cavo PUR - PUR cable connettore M8- M8 connector 0,3 m	cavo PUR - PUR cable 3x0,14 mm² 2 m (.L6 = 6 m .L10 = 10 m)
Peso - Weight	[g] 31,3 69	12	12,1	27,4 73,5 122,4

Accessori inclusi: Segnaposto in gomma, fascetta fermacavo - Accessories included: Rubber placeholder, cable clip

* necessario circuito di protezione esterno per carico induttivo (valvola, relè, ecc...). - External protective circuit for inductive load (valve, contactor, etc...) necessary.

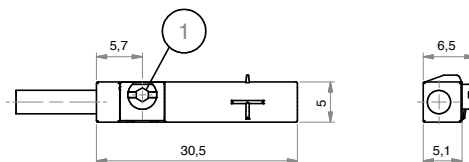
REED: nessuna funzione LED in caso di inversione di polarità nel funzionamento DC. - No LED function in case of polarity reversal in DC operation.

CONTATTO REED (2 FILI)

36.SEN06

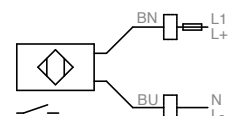
36.SEN06.L6

REED CONTACT (2 WIRES)



1 = ECCENTRICO DI FISSAGGIO - FASTENING CLAMP

CABLAGGIO - WIRING



BN= MARRONE - BROWN

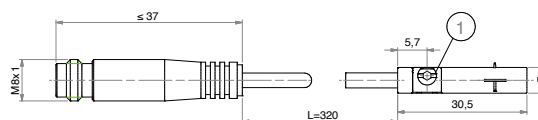
BU= BLU - BLUE

CONTATTO REED (CONNETTORE M8)

36.SEN08

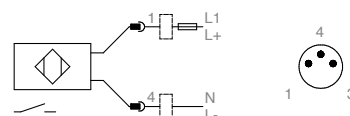
36.SEN07

REED CONTACT (M8 CONNECTOR)



1 = ECCENTRICO DI FISSAGGIO - FASTENING CLAMP

CABLAGGIO - WIRING



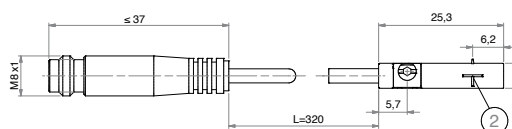
BN= MARRONE - BROWN

BU= BLU - BLUE

CONTATTO PNP (CONNETTORE M8)

36.SEN08

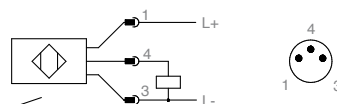
PNP CONTACT (M8 CONNECTOR)



1 = ECCENTRICO DI FISSAGGIO
FASTENING CLAMP

2 = SUPERFICIE ATTIVA
SENSING FACE

CABLAGGIO - WIRING



BN= MARRONE - BROWN

BU= BLU - BLUE

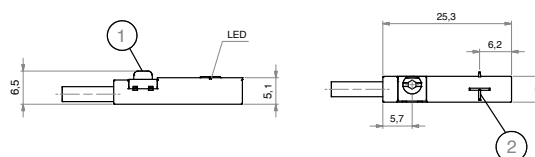
CONTATTO PNP (3 FILI)

36.SEN09

36.SEN09.L6

36.SEN09.L10

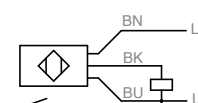
PNP CONTACT (3 WIRES)



1 = ECCENTRICO DI FISSAGGIO - FASTENING CLAMP

2 = SUPERFICIE ATTIVA - SENSING FACE

CABLAGGIO - WIRING



BK= NERO - BLACK

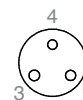
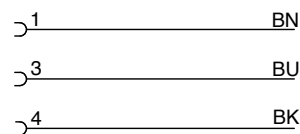
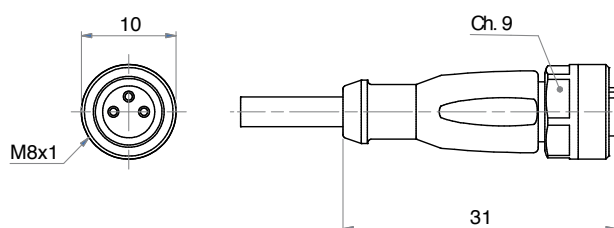
BN= MARRONE - BROWN

BU= BLU - BLUE

CAVO PROLUNGA (CONNETTORE M8)

36.CAV

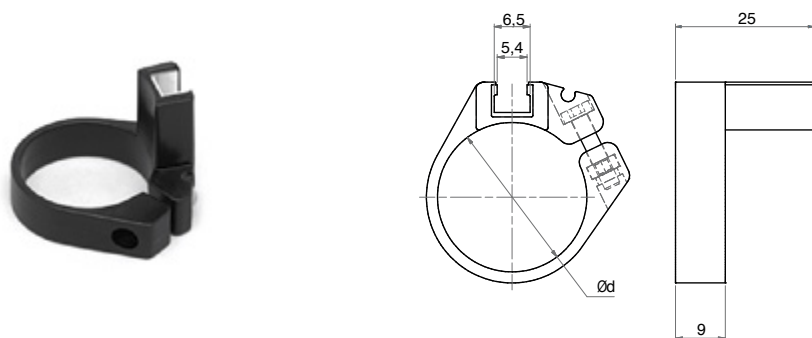
EXTENSION CABLE (M8 CONNECTOR)



ADATTATORE PER TUBO TONDO

36.TIRM

SENSOR MOUNTING FOR ROUND TUBE

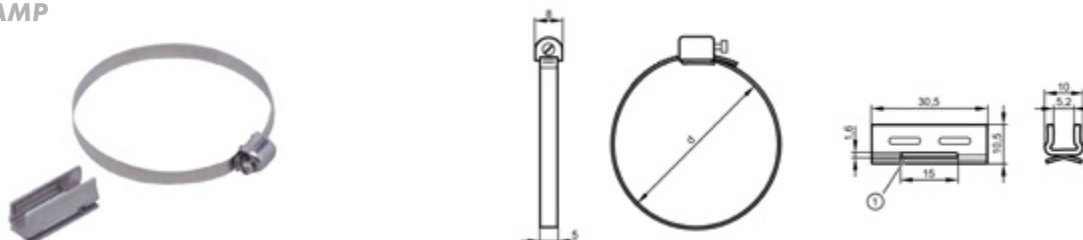


DIMENSIONI - DIMENSION		36.TIRM16	36.TIRM20	36.TIRM25
Alesaggio - Bore	[mm]	016	020	025
d	[mm]	16	20	25
Temperatura - Temperature	[°C]	0÷50		
Materiali - Materials		involucro - housing: POM ; supporto - fixture: alluminio - aluminium; vite-screw: inox - stainless steel		

FASCETTA DI FISSAGGIO

36.TIRX

FIXING CLAMP



DIMENSIONI DIMENSIONS		36.TIRX08.12	36.TIRX16.20	36.TIRX25.32
Ø		008-012	016-020	025-032
d [mm]		11÷19	18÷29	28÷39
Materiale fascetta Fixing clamp material		acciaio inox AISI 303 - AISI 303 stainless steel		
Materiale adattatore Adapter material		acciaio inox AISI 304 - AISI 304 stainless steel		