

ELECTRICAL/MECHANICAL DATA

Model	50 75 100 130 150 175 200 225 250 300 350 360 400 450 500 550 600 650 700 750 800 850 900 950 1000 1100 1200 1250 1300 1400 1500
	1750 2000 2250 2500 2750 3000 3250 3500 3750 4000
Electrical stroke (C.E.)	mm Model
Independent linearity	± %F.S. typical 0,02 (Max. 0,04)
Max. dimensions (A)	mm Model + 154
Repeatability	mm < 0,01
Hysteresis	mm < 0,01

ELECTRICAL CONNECTIONS

OUTPUT MK4C A

OUTPUT MK4C B

OUTPUT MK4C F

Function	Connect. (B) Pin°	Connect. (A) Pin°	Cable (Wire Color)
CAN L	1	5	Blue
CAN H	2	4	White
n.c.	3	1	-
n.c.	4	-	-
Power + Vdc	5	2	Red
DC Ground	6	3	Black

ATTENTION! Do not connect the DC Ground to the ground or to the cable sheathing.

ORDER CODE

Position transducer **MK4** **C**

CANopen interface	C
6-pin DIN 45322 output connector	B
5-pin Micro type M12 output connector	A
4-pin braided cable (on request)	F

Model

Type (see table 1)

Transmission speed (see table 2)

Type	N° Cursors	PD01 (Standard)	PD02 (Standard)
A	1	Position 4 Byte whole Speed 2 Byte whole Cams 1 Byte whole	Absence of data
B	2	Position 1, 4 Byte whole Speed 2 Byte whole Cams 1 Byte whole	Position 2, 4 Byte whole Speed 2 Byte whole Cams 1 Byte whole

1 = 1MBaud	4 = 250 kBaud	7 = 50 kBaud
2 = 800 kBaud	5 = 125 kBaud	8 = 20 kBaud
3 = 500 kBaud	6 = 100 kBaud	9 = 10 kBaud

Mechanical and/or electrical characteristics differing from those in the standard version may be arranged on request

Ex.: **MK4-C-B-0400-A-3 0000-2-XXXX-00-X-0-XX**
 Transducer model MK4, CANOpen output, connector B, model 400, type A (one cursor), transmission speed 500 Kbaud

CODE EXTENSION

0 0 0 0 **X X X X** **X 0 X X**

System resolution
 1 = 0.002 mm
 2 = 0.005 mm (standard)
 3 = 0.010 mm
 4 = 0.020 mm
 5 = 0.040 mm

Node number programmer
 XXX = standard; node = 127
 nnn = Node number specified in order

Cable length
 Output **F 00** = 1mt **02** = 2mt **03** = 3mt **04** = 4mt **05** = 5mt
 Output **B 00** **06** = 6mt
 Output **M 00**

Termination load
0 = without termination load
1 = 120Ω termination load

Transmission speed as function of cable length

Cable length	Baud Rate (KBaud)	Cable length	Baud Rate (KBaud)
< 25 m	1000	< 500 m	125
< 50 m	800	< 1000 m	100
< 100 m	500	< 1250 m	50
< 250 m	250	< 2500 m	20 / 10

Can Open Data Protocol

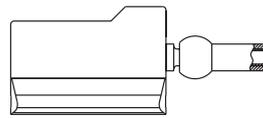
SOFF	Arbitration	Control	Data Field	CRC	ACK	EOF	Interframe Space	
1	11	1	6	0 - 8 Bytes	15	1 1 1	7	≥ 3 Bits

CURSORS ON REQUEST

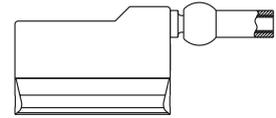
P C U R

Cursors	
Sliding cursor , axial joint (low) (STANDARD)	035
Sliding cursor, axial joint (high)	036
Sliding cursor, angled joint	037
Floating cursor	034

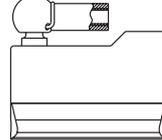
PCUR035



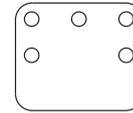
PCUR036



PCUR037



PCUR034

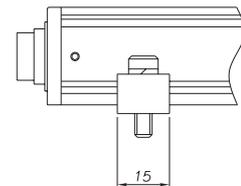
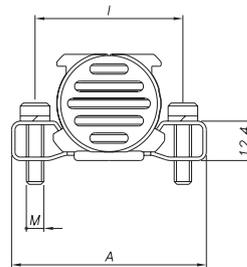


BRACKET S ON REQUEST



P K I T

Brackets (2 brackets for every kit)	
Bracket in steel, interaxis 42.5mm	090
Bracket in steel, interaxis 50mm	091



Brackets code	Interaxis (i)	Screw (V)	Dimension (A)
PKIT090	42.5	M4	56
PKIT091	50	M5	63.5

OPTIONAL FEMALE CONNECTORS

For A outputs, M12 thread connector

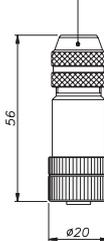
Codes: **CON031** for 5-pin output (MK4C A)
CON041 for 5-pin output (MK4C A)

For B outputs, M16 thread connector

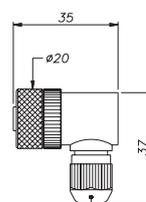
Codes: **CON021** for 6-pin output (MK4C B)
CON022 for 6-pin output (MK4C B)
CON023 for 6-pin output (MK4C B)

Connector extraction length: 10mm

Cable camp for $\varnothing 6.5$ cable



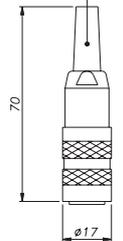
CON031
IP67 - IEC 48B



Cable camp for $\varnothing 6 - \varnothing 8$ cable

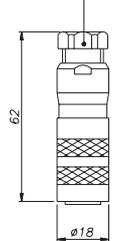
CON041
IP67

Cable camp for $\varnothing 5$ cable

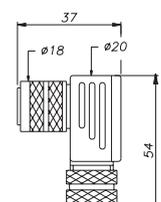


CON021
IP40 - EMC

Cable camp for $\varnothing 6 - \varnothing 8$ cable



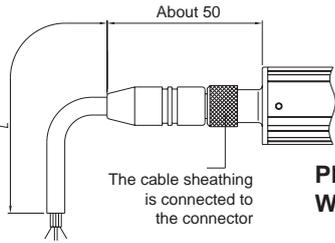
CON022
IP67 - EMC



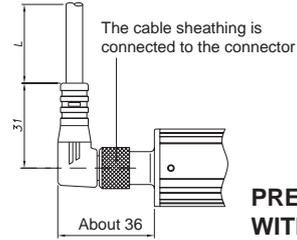
Cable camp for $\varnothing 5 - \varnothing 8$ cable

CON023
IP67 - EMC

OPTIONAL CABLES OUTPUT A



**PRE-ASSEMBLED CABLE
WITH STRAIGHT CONNECTOR**



**PRE-ASSEMBLED CABLE
WITH 90° CONNECTOR**

5-pin cable code		MK4C - A	
Lenght "L"		CODE	
		straight cable	Cable to 90°
2	mt	CAV011	CAV021
5	mt	CAV012	CAV022
10	mt	CAV013	CAV023
15	mt	CAV015	CAV024

Sensors are manufactured in compliance with:
 - EMC 2004/108/CE compatibility directive
 - RoHS 2002/95/CE directive

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

GEFRAN spa reserved the right to make aesthetic or functional changes at any time and without notice.