



Applicazioni:

Low profile load cell Type 142 can be used in low, medium and high capacity weighing systems.

Some applications are:

- Belt conveyor scale and weight feeders
- Small weighing platforms

Main features:

- Water-proof
- High resistance to side loads
- Available with double output signal (for redundant systems)
- Available with output **CANopen** (CIA 404)
- Available with analog output 4-20mA
- Entirely in stainless steel
- Welded with mycoplasma
- High precision (equivalent to OIML C3)
- Atex certification

Nominal load:

t: 0.5-1-2-5-7,5-10-15-20-30-50-100-150-200



**LOW PROFILE
LOAD CELL
TYPE 142**

Specification according to VDI/VDE 2637

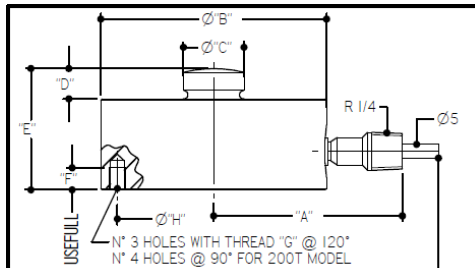
Metrological Characteristics	Par.	Un.	
Combined Error	Fcomb	±%Ln	0,035
Initial Load	Ln	t	0,5÷200
Minimum Load	Lp	%Ln	25
Maximum Load	Ll	%Ln	150
Linearity	Flin	±%Ln	0,02
Hysteresis	Fu	±%Ln	0,015
Repeatability	Fv	±%Ln	0,01
Creep (in 30')	Fcr	±%Ln	0,02
Nominal Temperature Range	Btn	°C	-10+40
Zero Temperature Drift (10÷60°C, over 10°C)	TKo	±%Cn	0,065
Output Temperature Drift (10÷60°C, per 10°C)	TKC	±%Cn	0,035
Thermal Gradient		K/h	<5

Electrical Data			
Nominal Output	Cn	mV/V	2
Nominal Output Tolerance	Dc	±%Cn	0,1
Nominal Supply Voltage	Bsu	V	1÷24
Maximum Supply Voltage	Usmax	V	30
Input Resistance	Re	Ω	850±10%
Output Resistance	Ra	Ω	700±1%
Insulation Resistance @20V	Ris	MΩ	>2000
Zero balance	Do	±%Cn	2

Mechanical Data			
Breaking Load	Ld	%Ln	>300
Maximum Side Load	Llq	%Ln	>300
Deflection	hn	mm	<0,5
Cable Length		m	5
Weight		Kg	1,5 ÷ 7,5

Environmental Conditions			
Working Temperature Range	Btn	°C	-40+80
Storage Temperature Range	Bts	°C	-40+80
Housing Protection			IP -68

Subject to change without notice



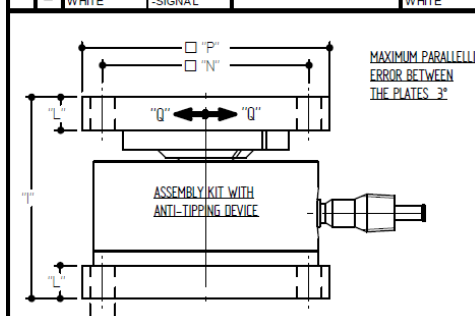
USEFUL: N° 3 HOLES WITH THREAD "G" @ 120°
N° 4 HOLES @ 90° FOR 200T MODEL

142-XXX-C3 ORDERING INFORMATION

NOMINAL LOAD	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
500k								
1t								
2t	66	82	22	11	44	8	M6	70
5t								
7,5t								
10t								
15t								
20t	74	99	28	11	48	15	M10	80
30t	88	126	35	12	54	15	M12	105
50t								
100t	107	164		15	65			
150t								
200t	113	170		13	78,5	20	M16	130

SHIELDED POLYURETHANE CABLE WITH 4x0,35mm² FOR SINGLE BRIDGE AND 8x0,125mm² FOR DOUBLE BRIDGE STANDARD LENGTH 5m OTHER LENGTH ON REQUEST

	TYPE #42-XXX-C3		TYPE #42MA-XXX-C3		TYPE #42CO-XXX-C3	
	+	-	+	-	+	-
SINGLE BRIDGE	BLUE	+SUPPLY	BLUE	+SUPPLY	BLUE	+SUPPLY
	BLACK	-SUPPLY	BROWN	-SUPPLY	BROWN	-SUPPLY
	RED	+SIGNAL	GRAY	+4-20mA	RED	CAN H
	WHITE	-SIGNAL			WHITE	CAN L
DOUBLE BRIDGE	TYPE #42DP-XXX-C3		TYPE #42DPM A-XXX-C3		TYPE #42DPCO-XXX-C3	
BRIDGE 1	GREEN	+SUPPLY	GREEN	+SUPPLY	GREEN	+SUPPLY
	YELLOW	-SUPPLY	YELLOW	-SUPPLY	YELLOW	-SUPPLY
	GRAY	+SIGNAL	GRAY	+4-20mA	GRAY	CAN H
	PINK	-SIGNAL			PINK	CAN L
BRIDGE 2	BLUE	+SUPPLY	BLUE	+SUPPLY	BLUE	+SUPPLY
	BROWN	-SUPPLY	BROWN	-SUPPLY	BROWN	-SUPPLY
	RED	+SIGNAL	RED	+4-20mA	RED	CAN H
	WHITE	-SIGNAL			WHITE	CAN L



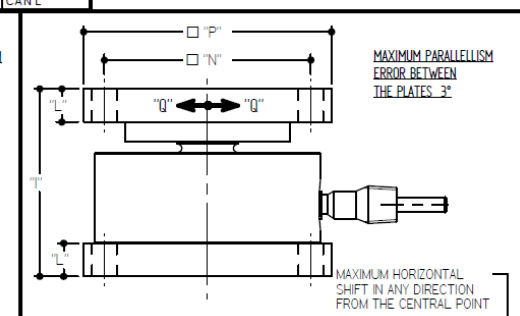
MAXIMUM PARALLELISM ERROR BETWEEN THE PLATES: 3°

ASSEMBLY KIT WITH ANTI-TIPPING DEVICE

MAXIMUM HORIZONTAL SHIFT IN ANY DIRECTION FROM THE CENTRAL POINT

KIT ORDERING INFORMATION

NOMINAL LOAD	"I"	"L"	"M"	"N"	"P"	"Q"
K142-1H	≤10t	73	12	9	75	90
K142-2H	10-20t	80	12	11.5	90	110
K142-3H	30t	94	15	13	115	140

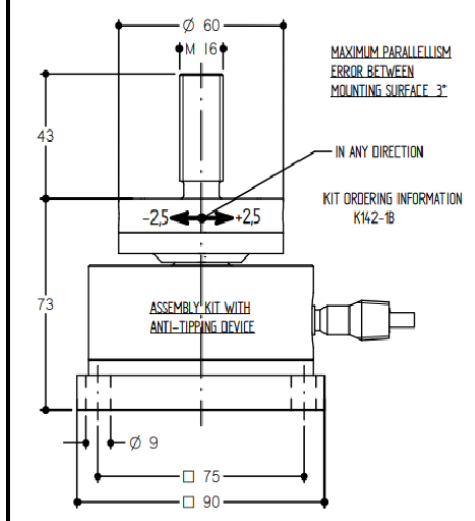


MAXIMUM PARALLELISM ERROR BETWEEN THE PLATES: 3°

MAXIMUM HORIZONTAL SHIFT IN ANY DIRECTION FROM THE CENTRAL POINT

KIT ORDERING INFORMATION

NOMINAL LOAD	"I"	"L"	"M"	"N"	"P"	"Q"
K142-1D	≤10t	68	12	9	75	90
K142-2D	10-20t	72	12	11.5	90	110
K142-3D	30t	84	15	13	115	140
K142-4D	50-100t	115	25	18	150	180
K142-4D	150t	121	25	18	150	180
K142-4D	200t	129	25	18	150	180

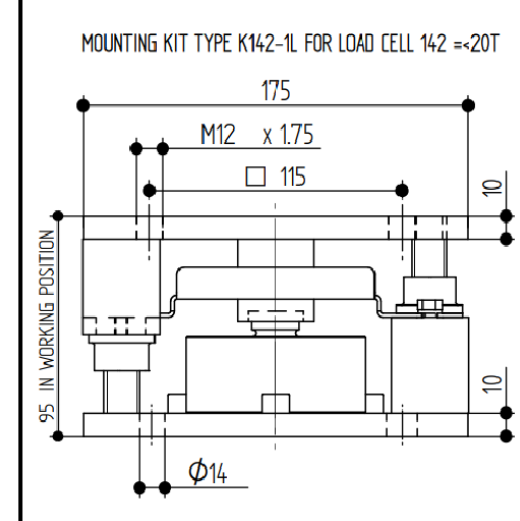


MAXIMUM PARALLELISM ERROR BETWEEN MOUNTING SURFACE: 3°

IN ANY DIRECTION

KIT ORDERING INFORMATION K142-1B

ASSEMBLY KIT WITH ANTI-TIPPING DEVICE



MOUNTING KIT TYPE K142-1L FOR LOAD CELL 142 ≤20T

95 IN WORKING POSITION