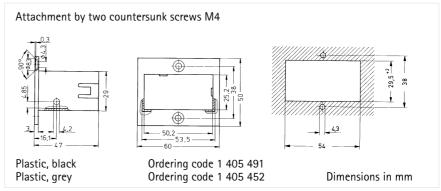
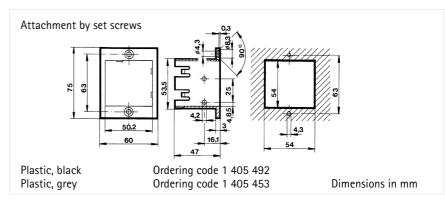
### Panel Frames

## for Hengstler Modular System 400

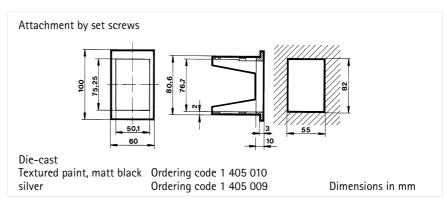














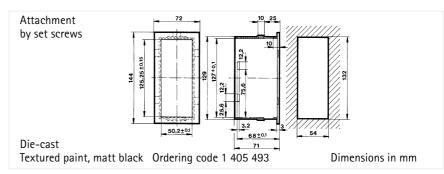
Attachment by set screws 125 50,1 Sheet steel Ordering code 1 405 093 Textured paint, matt black Dimensions in mm

Size 4

### **Panel Frames**

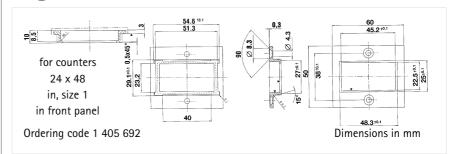
### for Hengstler Modular System 400



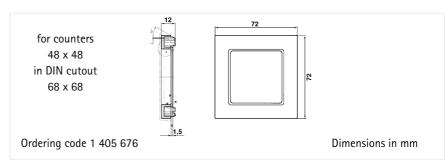


# Panel Frames "signo" + "tico"

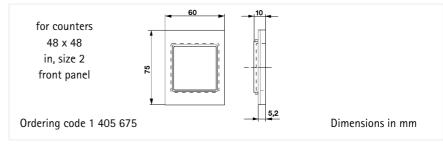




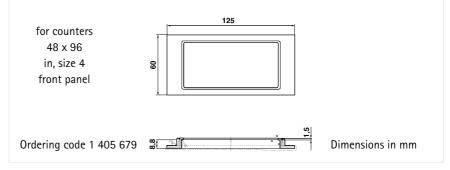










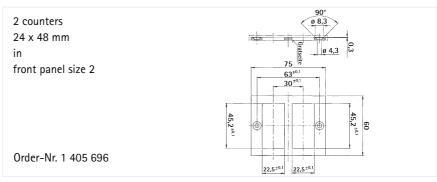


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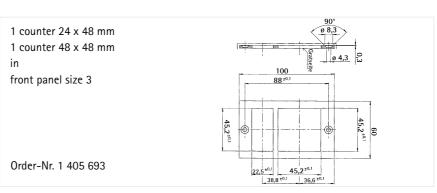
### **Panel Frames**

### for Hengstler Modular System 400









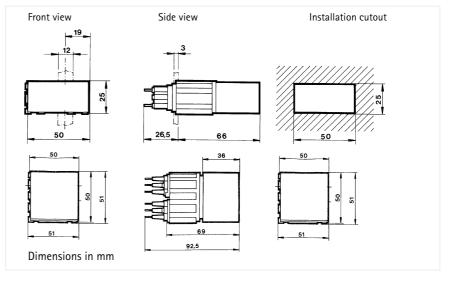
### **Dummy Caps**



**DIMENSIONED DRAWING SIZE 1** Dummy cap with attachment socket

For filling a prepared counter cutout

**DIMENSIONED DRAWING SIZE 2** Dummy cap with attachment socket



**ORDER INFORMATION** 

Dummy cap size 1 Ordering code 2 651 009 Dummy cap size 2 Ordering code 1 651 018

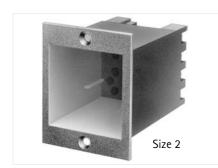
### **Protective Cases**

### with Screw Terminal Connection

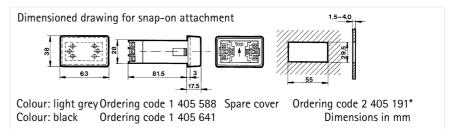


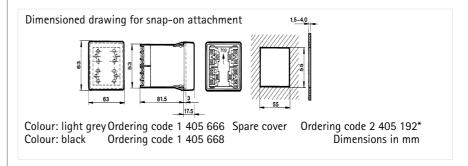


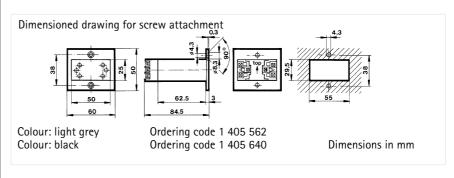


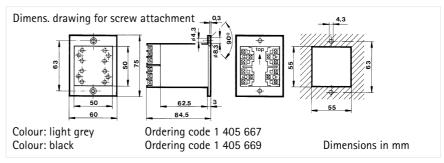


TECHNICAL DATA









\* On request

Case	fibreglass-reinforced plastic
Transparent cover	see "Accessories - transparent covers"
Mounting	screw or snap-on attachment, dep. on version
Connection	screw terminals on the rear of the case
Protection class	- screw-mounted case IP 00,
(IEC 144)	with mounted transparent cover: front IP 65, connections IP 00
	- case with snap-on attachment: front IP 52, connections IP 00

### **Sealing Covers • Transparent Covers**

### with Protection to IP 65





Flexible Vestolit sealing cover with metal frame for panel frames or protective cases

The sealing set enables you to operate a counter through the cover.

for screwed front panel 60 x 50 mm Ordering code 1 405 615, silver colour

for screwed front panel 60 x 75 mm Ordering code 1 405 404, silver colour Ordering code 1 405 587, black

Parts supplied:

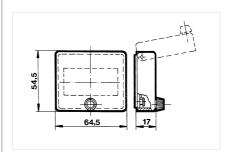
Sealing set including metal frame, cover and retaining screws.

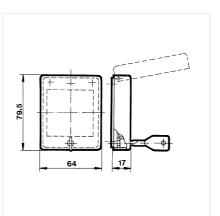






Transparent covers together with the fitting panel frame or protective case offer protection against dust and water from the front for switch-panel incorporation.





Size 1

for screwed front panel 60 x 50 mm Ordering code 1 405 611 Ordering code 1 405 612 with knob with key lock

Size 2

for screwed front panel 60 x 75 mm Ordering code 1 405 613 Ordering code 1 405 614 with knob with key lock

Protection class IP 65 acc. to DIN 40 050. Transparent covers are made of makrolon, seals are made of synthetic rubber.

Parts supplied:

Transparent covers including seals. 1 key per unit for versions with lock.

### Type 680



#### TECHNICAL DATA

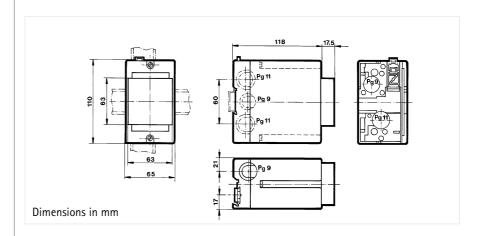
# Case for Surface Mounting

### and DIN Rail Attachment

- Attachment by means of 35 mm DIN rail or with screws
- Case made of insulating material
- Installation of counters of the modular system 400 in protective case size 2

Case	ABS plastic
Colour	grey
Resistance to heat	up to 85 °C
Burning properties	VDE 0304 part 3/5.70, degree Illa
Mounting	- snap-on attachment to 35 mm DIN rail (DIN 46277/DIN EN 5022), lengthwise or crosswise
	- screw-mounting 2 x M4 or M5
Connection	by cable, cable inlet with PG-cable gland or feed-through

#### **DIMENSIONED DRAWING**



#### ORDER INFORMATION

Case (without counters) Ordering code 1 680 089

Delivery includes case compl. with protective case size 2 (12-way connectors) without counters.

### Measuring Wheels

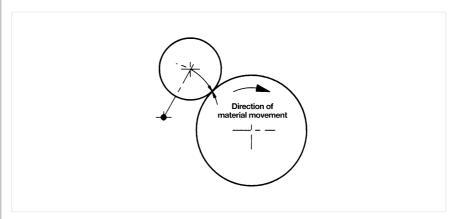
**APPLICATION** 

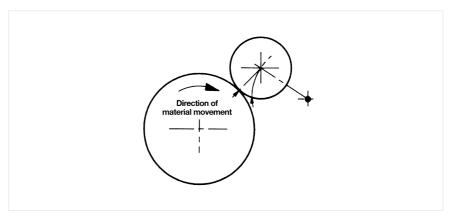
**CORRECT** MEASURING WHEEL OR PULSE **GENERATOR** 

WRONG MEASURING WHEEL OR PULSE **GENERATOR** 

MEASURING WHEEL CIRCUMFERENCE/ TRANSMISSION RATIO In order to avoid errors when using measuring wheel actuation, it is important that the slip is kept as low as possible. When choosing a profile (surface structure), special attention must be given to the properties the material being measured, such as elasticity, thickness and interaction resistance. Slippage is also influenced by the width of the contacting measuring wheel, the pressure of contact, the tensile stress in the material that is being measured and the angle of wrap. The angle of wrap should be as large as possible. Wheel bodies are made of cast metal or plastics (see designa-

The position of the measuring wheel should be chosen such that the material moves away from the bearing of the sen-



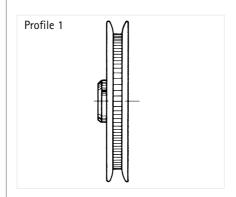


Use the following measuring wheels for different transmission ratios of counters:

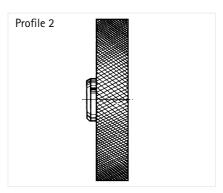
Counter transmission	measuring wheel
ratio	circumference
500:1	0.2 m (1/5 yd.)
50:1	0.2 m (1/5 yd.)
5:1	0.2 m (1/5 yd.)
2:1	0.5 m (1/2 yd.)
1:2	0.2 m (1/5 yd.)
1:5	0.5 m (1/2 yd.)
1:20	0.2 m (1/5 yd.)

### Measuring Wheels

#### **OVERVIEW**

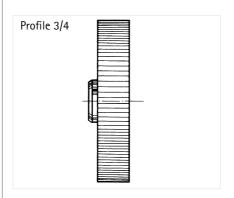


1 with rims, aluminium with fine cross knurling Used e.g. for threads and yarns



2 Rubber profile, glued on Used e.g. for paper and cardboard, cable measurement, non-greasy metal, fleece, wood (rough or finished), soft and hard plastic materials;

A = soft, highly adhesive rubber coating B = good-grip, low-wear rubber



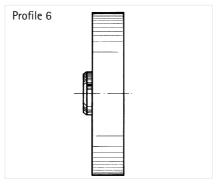
3 Rubber coating with parallel knurling, vul-Used e.G for rubber, leather. textiles, floorings, glass

Profile 5

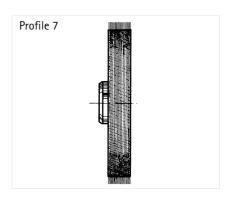
5 With rims, aluminium with parallel knur-Used e.g. for threads, yarns, ribbons

Used e.g. for rubber, soft plastic materials, wood with rough surface, certain textiles

4 Aluminium with parallel knurling



6 Plastic coated Used e.g. for wire, greased metals, steel profiles



7 Card band Used e.g. for carpets and coarse textiles

circumference/transmission ratio

MEASURING WHEEL

## Measuring Wheels Technical data

**ORDER INFORMATION** Aluminium

**PLASTIC** 

Circumf.	Profile	Width of contact surf.	Bore Ø			
		mm	4.0 mm	6.0 mm	7.0 mm	10.0 mm
0.2 m	1	4	0 601 014	0 601 015	0 601 017	
	2 A	12	0 601 018			
	2 B	12	0 601 118	0 601 048		0 601 049
	2 A	24	0 601 020		0 601 092	
	2 B	24			0 601 192	
	4	20,5	0 601 023			
	4	20			0 601 093	
	5	16,5	0 601 026		0 601 094	
0.5 m	2 A	25			0 601 050	
	2 B				0 601 150	0 601 151
	3	25			0 601 059	0 601 156
	4	25			0 601 121*	0 601 157
	5	16			0 601 052	
	6	25			0 601 063*	0 601 163
	7	26,5				
1/5 yd.	1	4	0 601 034		0 601 037	
	5	16,5			0 601 096	
1 Fuß	2 A	25			0 601 071	
	2 B	25			0 601 171	
0.2 m	1	4	0 601 100			
0.5 m	4	25			0 601 301	
	6	25			0 601 300	

<sup>\*</sup> meets PTB requirements

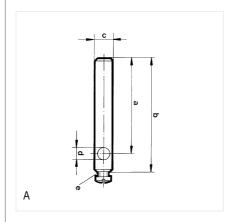
Inquire for other measuring wheels

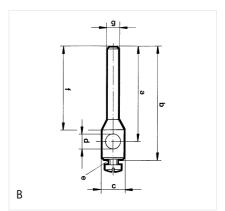
### Stroke Levers

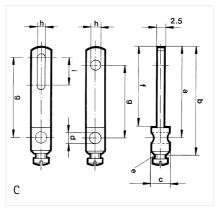
**OVERVIEW** 

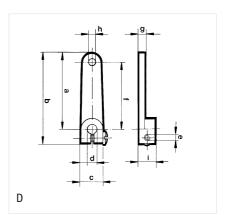
levers available. The stroke levers are not supplied with the counters and must be ordered separately.

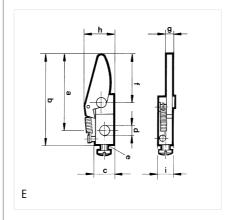
This overview shows different kinds of A "standard lever" is stated with the order information for mechanical stroke counters.











### **Stroke Levers**

### Technical data

**DIMENSION TABLE** 

Ordering code	а	b	С	d	e	f	g	h	i
0 600 003	34	40.5	Ø 8	$\emptyset$ 5	M 3	29.5	$\emptyset$ 4		
0 600 005	45	55	$\varnothing$ 10	$\emptyset$ 7	M 4	41	$\emptyset$ 5		
0 600 007	26	31.5	$\emptyset$ 7	$\emptyset$ 3	M 2.6	21.2			
0 600 009	22	28	$\emptyset$ 7	$\emptyset$ 4	M 4	18	18	3	11
0 600 010	28.7	33.7	8	$\emptyset$ 3	M 2.6	25.4	1.8	2.5	5.5
0 600 012	28.2	33.5	7	$\emptyset$ 3	M 2.6	17.8	2	10.7	5
0 600 013	28.2	33.5	7	$\emptyset$ 4	M 4	17.8	2	10.7	5
0 600 026	35.5	41.5	$\emptyset$ 7	$\emptyset$ 4	M 4	31.5	$\emptyset$ 3.5		
0 600 047	27.5	35	7	$\emptyset$ 4	M 3	24	2.5	2	6
0 600 061	22	28	$\emptyset$ 7	$\emptyset$ 4	M 4	18	15	3	
0 600 090	33	39.5	Ø 8	$\emptyset$ 5.5	M 4	28.5	$\emptyset$ 4		
0 600 126	35	41.5	$\emptyset$ 6	$\emptyset$ 4	M 4				

#### **ORDER INFORMATION**

Bore ∅ mm	A	В	Shape C	D	E
3			0 600 007	0 600 010	0 600 012
4	0 600 126	0 600 026	0 600 009*	0 600 047*	0 600 013
4			0 600 061*		
5		0 600 003			
5.5		0 600 090			
7		0 600 005			

<sup>\*</sup> on request Inquire for other stroke levers

### **Spark Quenching**

Loads operated directly by the counter, such as contactors, solenoids etc., produce a very high inductive voltage when they are switched off.

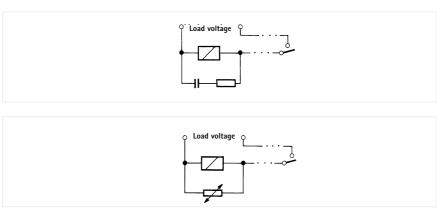
This leads to sparking at the switch contacts and causes contact burning, thus reducing the lifetime or the integrated relay. Voltage peaks may also cause interfering pulses.

Therefore we recommend to adopt one of the following spark quenching measures for inductive loads.

#### RC UNIT For contactors, solenoids etc.

**VARISTOR** For small relays

ORDER INFORMATION



RC unit	Ordering code 3 536 801
Varistor	Ordering code 3 540 777

### **Mounting Frame**

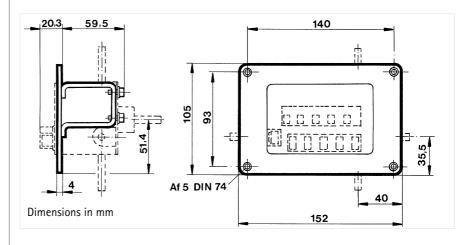


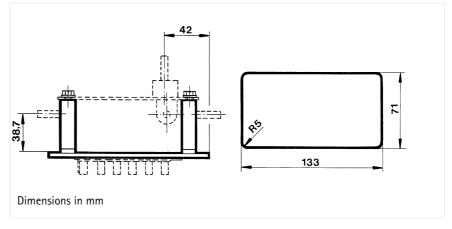
**DIMENSIONED DRAWING** 

This mounting frame is designed for the installation of mechanical counters type 225 and 250.

The mounting frame is attached by means of four countersunk screws (supplied with the frame). The counter can

easily be installed once the frame is in place. Slide the counter into the mounting frame and fasten to the baseplate from below.





ORDER INFORMATION

Flat connectors

Flat steel bar

Mounting frame for counters type 225 or 250, complete

Ordering code 1 250 056

Flat connector 2.8 x 0.8 mm for electrical connection of all counters (except for counters with screw terminals)

Order information Ord. code 3 530 077

Flat steel bar for the installation of connection boxes of the modular system

Order information Ord. code 2 405 058

12 x 3 x 105 mm For description see installation instructions