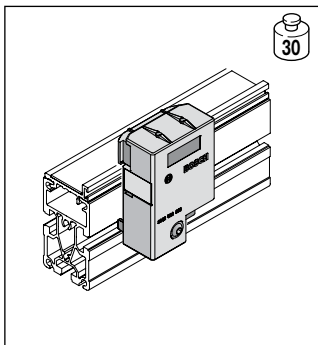Rocker Stops

Section 16 – Rocker Stops

Rocker stops are used for area monitoring, workpiece pallet detection and as a stop when transporting a pallet transversely to an adjacent conveyor line.

Area monitoring is accomplished with the rocker stop bar and a proximity switch. As long as the pallet is in contact with the rocker bar, the proximity switch detects the presence of the pallet. The area monitored will be the length of the rocker stop bar.

Fitting a rocker stop with a second proximity switch allows monitoring of the area and, the position of a workpiece pallet can be detected. As an example, this would be a requirement if using a rocker stop in conjunction with a reversible lift transfer unit.

When using a lift transfer unit a rocker also serves as a stop for the workpiece pallet and together with a proximity switch, signals the presence of the pallet.

All rocker stops are shipped with the necessary mounting hardware and proximity switch mounting brackets. Proximity switches must be ordered separately on page 17-6.
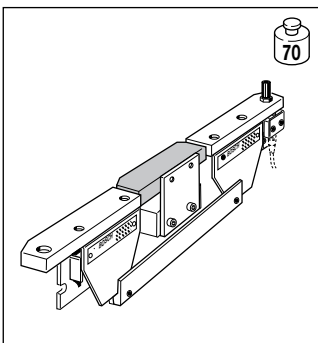
WI/M
Rocker Stop
16-2
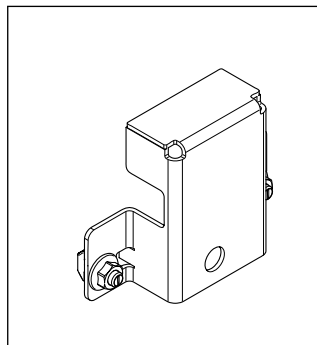
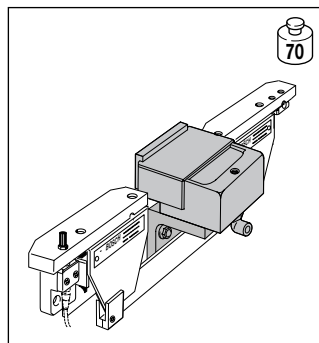**WI/M**
Protective Cover
16-3
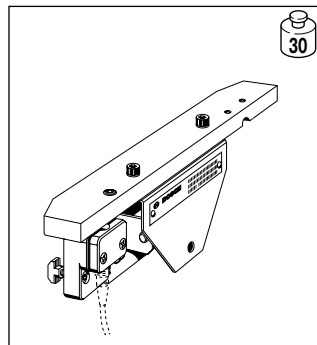
WI2
Rocker Stop
16-4 to 16-5
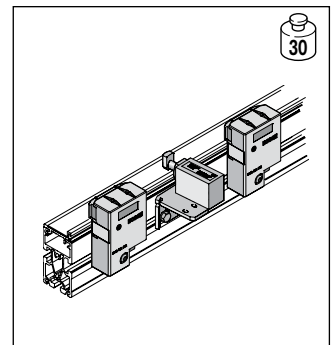
Cushioned Rocker Stop Kit
16-6

WI2/H
Heavy Duty Rocker Stop
16-7

WI2/D Heavy Duty
Cushioned Rocker Stop
16-8

16

Rocker Stops

Rocker Stop

Model WI/M

The WI/M mini rocker stop provides an economical method of workpiece pallet detection and can be used (in conjunction with other components) to create an accumulation control kit.

When used for pallet detection, a 12 mm body proximity switch is required (ordered separately on pg. 17-6). The switch is activated when a workpiece pallet passes in front of the rocker. In this configuration, the WI/M has a monitoring area of 44 mm.

The WI/M can also be combined with an optional Pneumatic Cylinder Switch. In this configuration, the actuation, which is caused by a pallet passing by a WI/M, is converted into a pneumatic signal. A pneumatic accumulation control kit is created by combining a WI/M with pneumatic cylinder switch and a VE2 stop gate.
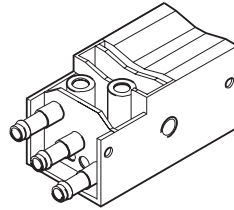
Pneumatic Cylinder Switch
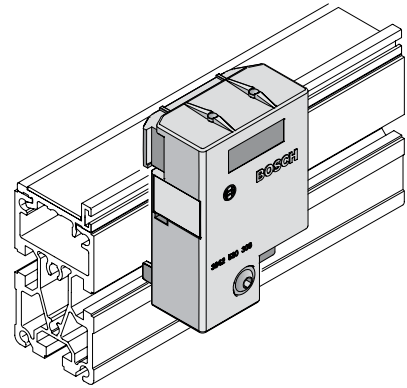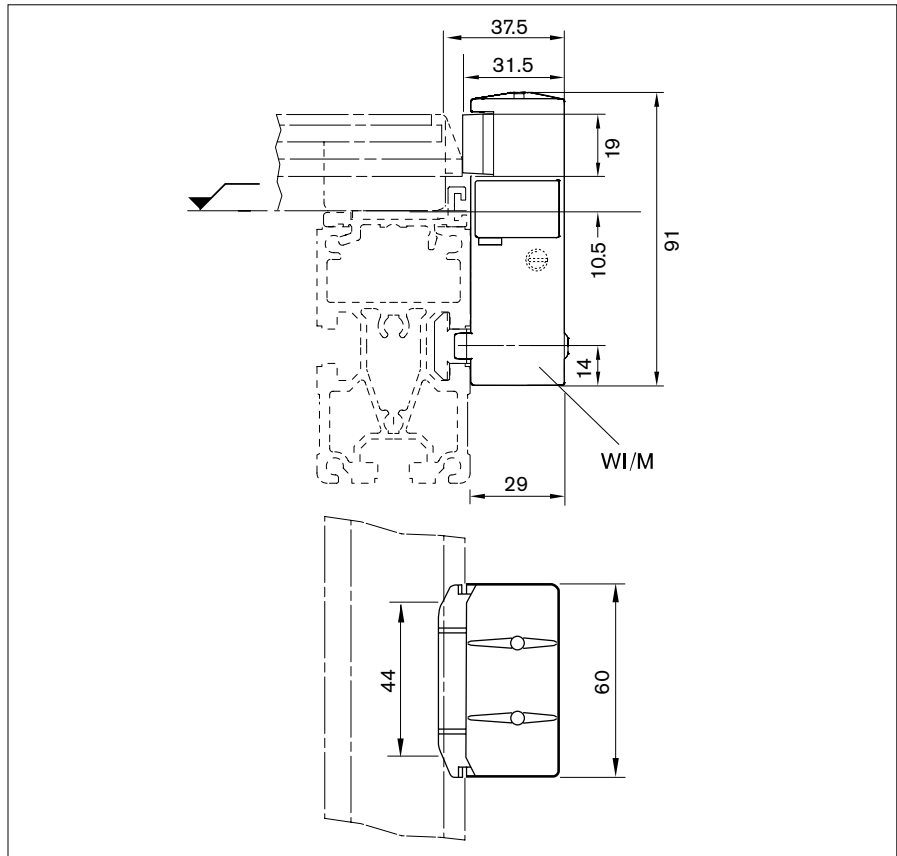
Ordering Information for Rocker Stop WI/M

Description	Part Number
WI/M Rocker Module (Fastening Hardware Included)	**3842 530 797**
Pneumatic Cylinder Switch	**3842 532 151**

Dimensional data, WI/M

16

Rocker Stops

WI/M Protective Cover
Model WI/M

WI/M protective covers are designed to be used with WI/M mini rocker stops. Made of corrosion-resistant sheet steel, they provide a protective enclosure to help prevent damage to the rocker stop in harsh industrial environments.

The protective cover attaches to the T-slot in the conveyor side rail and includes all required mounting hardware. Order rocker stops separately.
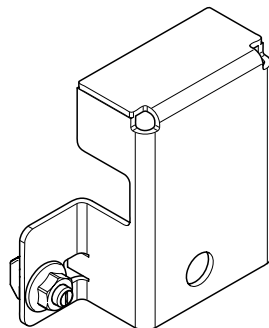
Ordering Information for WI/M Protective Covers

Description	Part number
WI/M Protective Cover	**3842 537 855**

Dimensional data, WI/M

1) = Transport level

Rocker Stops
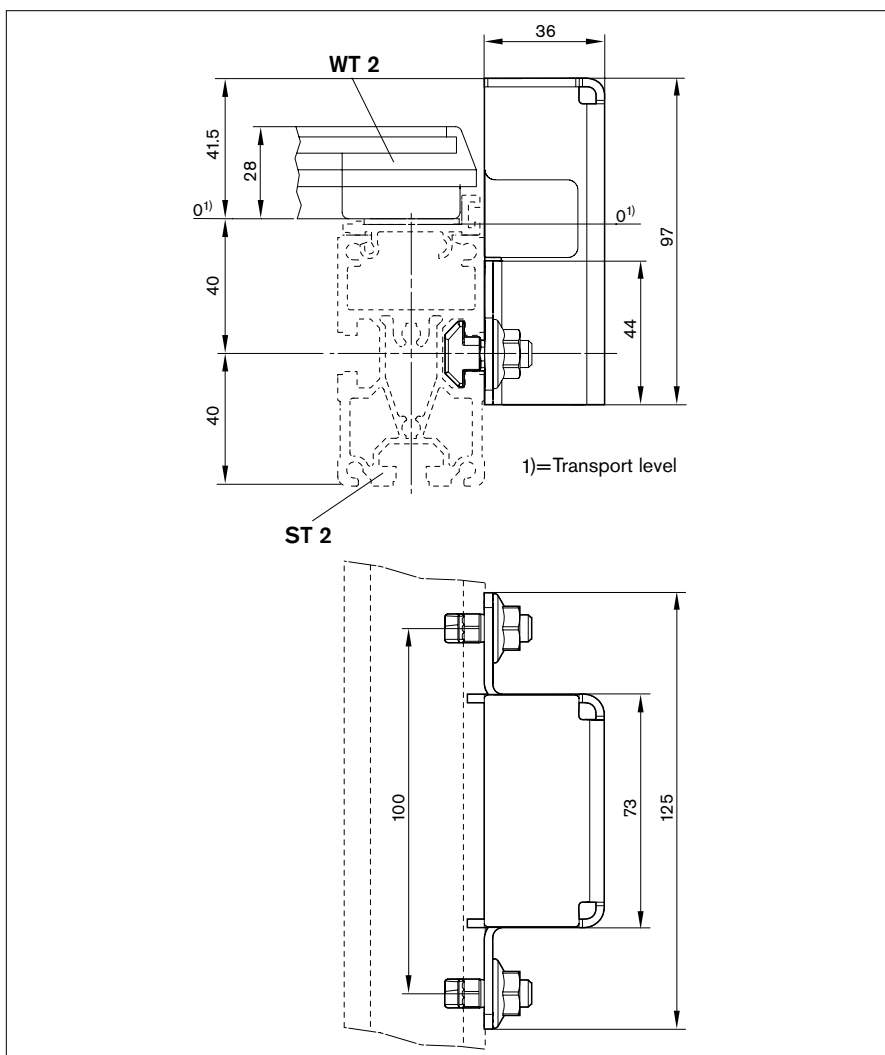
Rocker Stop

Model WI2 ($B_Q \leq$ 480 mm)

The WI2 rocker stop is used for area monitoring, workpiece pallet detection, and as a stop for transverse transfer of pallets. This model is used for pallet lengths of 480 mm and under. For total pallet and payload weights exceeding 30 kg, cushioned rockers WI2/D are recommended.

The stop rail protrudes slightly into the transport path, and when a workpiece pallet makes contact with the stop rail it pushes the rail outward, deactivating a proximity switch (not included, see pg. 17-6). The length of the area monitored depends on the length of the stop rail.

If the WI2 rocker stop is fitted with a second proximity switch, the position of the workpiece pallet can also be recognized. This is necessary if rockers are used together with reversible lift transverse units EQ2.

The WI2 rocker stop is only for use with total pallet & payload weights of 30 kg or less. The unit is shipped with an unmounted stop rail, necessary fastening hardware, switch brackets. Proximity switches must be ordered separately.
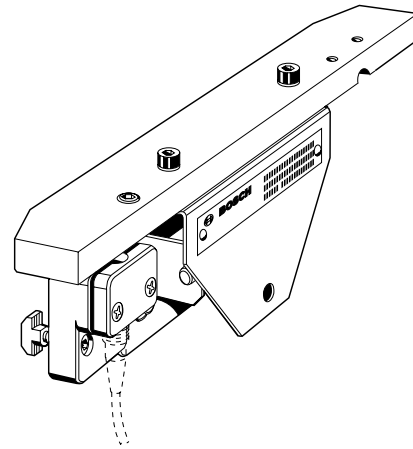
Ordering Information for Rocker Stops WI2 ($B_Q \leq$ 480 mm)

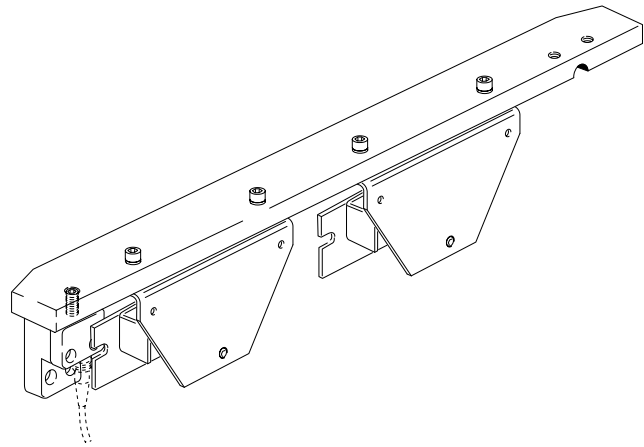| B_Q	a (mm)	b (mm)	c (mm)	L (mm)	WI2 ($B_Q \leq$ 480 mm) Part Number
160	165	155	105	320	**3 842 348 780**
240	165	155	25	320	**3 842 348 781**
320	245	155	25	400	**3 842 348 782**
400	292	188	25	480	**3 842 348 783**
480	332	228	25	560	**3 842 348 784**

Dimensional data, WI2 ($B_Q \leq$ 480 mm)
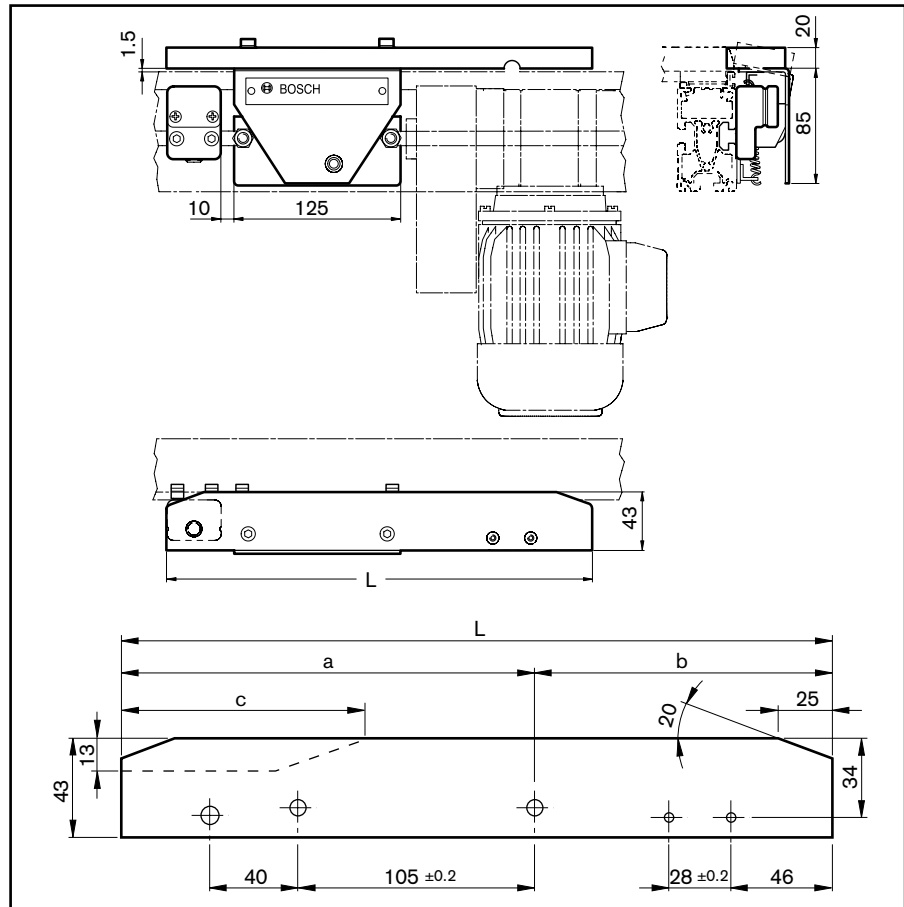
Rocker Stops

Rocker Stop

Model WI2 ($B_Q \geq$ 640 mm)

The WI2 rocker stop is used for area monitoring, workpiece pallet detection, and as a stop for transverse transfer of pallets. This model is used for pallet lengths of 640 mm or greater. The WI2 rocker stop is only for use with total pallet & payload weights of 30 kg or less. For total pallet and payload weights exceeding 30 kg, cushioned rockers WI2/D are recommended.

The stop rail protrudes slightly into the transport path, and when a workpiece pallet makes contact with the stop rail it pushes the rail outward, Deactivating the a proximity switch (not included, see pg. 17-6). The length of the area monitored depends on the length of the stop rail.

If the WI2 rocker stop is fitted with a second proximity switch, the position of the workpiece pallet can also be recognized. This is necessary if rockers are used together with reversible lift transverse units EQ2.

The unit is shipped with an unmounted stop rail, necessary fastening hardware, switch brackets. Proximity switches must be ordered separately.

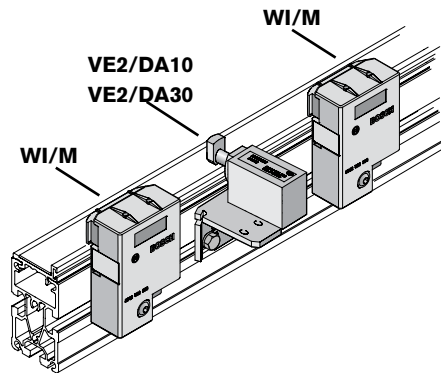## Ordering Information for Rocker Stops WI2 ($B_Q \geq$ 640 mm)

B_Q	L (mm)	WI2 ($B_Q \leq$640 mm) Part Number
640	720	**3842 348 786**
800	880	**3842 348 788**

Dimensional data, WI2 ($B_Q \geq$ 640 mm)

16
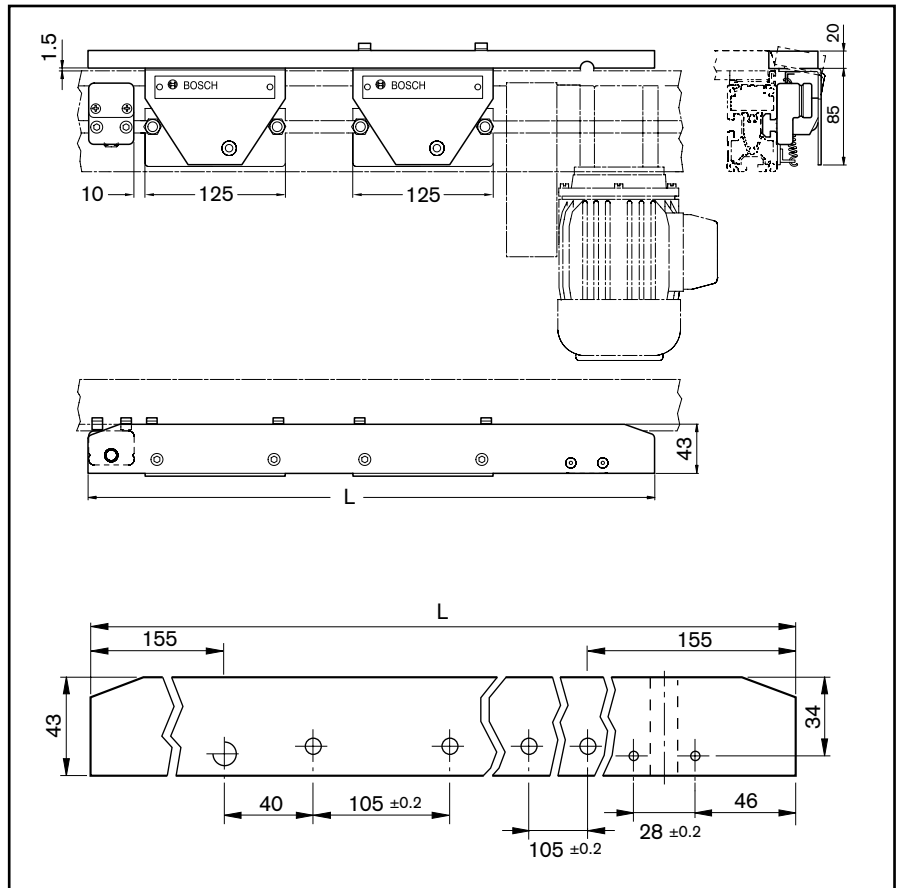
Rocker Stops

Cushioned Rocker Stop Kit

The cushioned rocker stop kit is used as an economical means of softly stopping pallets traveling along a transverse conveyor section.

The cushioned rocker stop kit combines two standard WI/M rockers (see page 16-2) with a VE2/DA10 (for pallet loads up to 10 kg) or a VE2/DA30 (for pallet loads from 10 - 30 kg). See page 15-6 for more information about VE2/DA10 and VE2/DA30 stop gates.

**NOTE:** All components must be ordered separately.

The VE2/DA10 or VE2/DA30 stops the pallet gradually, minimizing impact on the workpiece, before allowing it to contact the WI/M rocker. The damping effect is pneumatic, and the degree of damping is adjustable. Two WI/M modules must be used.

The WI/M cushioned rocker stop is only for use with total pallet & payload weights of 30 kg or less. The unit is shipped with necessary fastening hardware, and proximity switches must be ordered separately.

Ordering Information for Rocker Stop WI/M

		Qty Req'd.	Part Number
WI/M		2	**3842 530 797**
VE2/DA10	Choose one	1	**3842 515 349**
VE2/DA30		1	**3842 515 351**

Dimensional data, WI/M
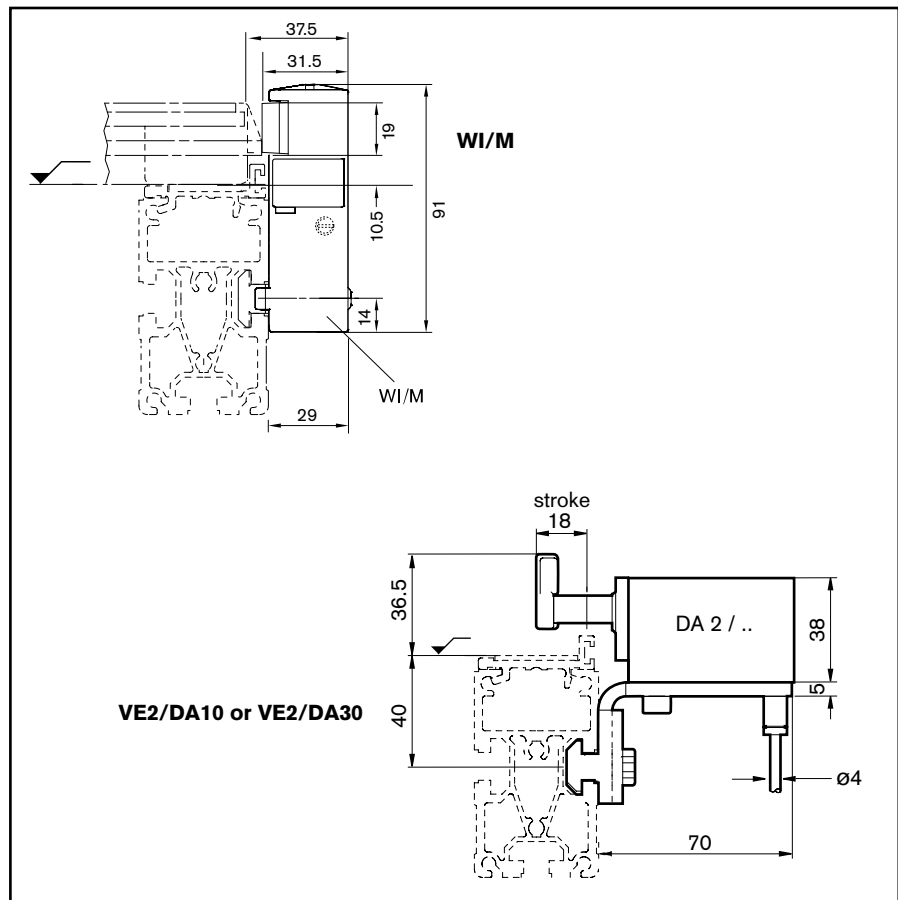
Rocker Stops

Heavy Duty Rocker Stop
Model WI2/H

WI2/H

Second rocker
extension kit
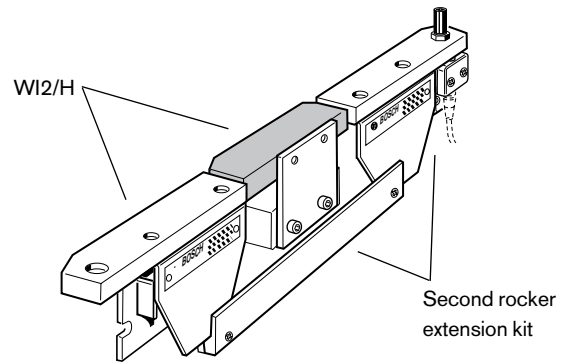
The WI2/H rocker stop is used for area monitoring, workpiece pallet detection, and as a stop for transfer of pallets. This model is used for pallet payloads of 30 kg or greater. For a cushioned stop of this capacity, the WI2/D cushioned rocker stop can be used.

The stop rail protrudes slightly into the transport path, and when a workpiece pallet makes contact with the stop rail it pushes the rail outward, activating a proximity switch (not included, see pg. 17-6).

The WI2/H rocker stop can be fitted with a second rocker bar and proximity switch by using the second rocker extension kit. This kit consists of a second rocker and an extension bar (see illustration). This method allows the position of the workpiece pallet to be recognized along the entire length of the rocker.

The unit is shipped with necessary fastening hardware and switch brackets. Proximity switches must be ordered separately.

Ordering Information for Rocker Stop WI2/H and second rocker extension kit

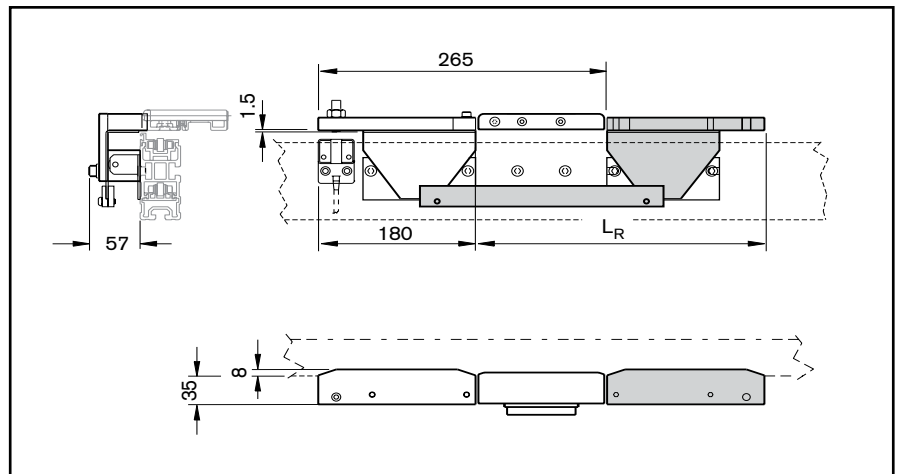| L_{WT}			Part Number
All	WI2/H		**3 842 524 447**
	WI2/H second rocker extension kit		
L_{WT}	L_R		
400	265		**3 842 524 449**
480	345		**3 842 524 450**
640	505		**3 842 524 451**
800	665		**3 842 524 452**
1040	905		**3 842 524 453**

Dimensional data, WI2/H

16

Rocker Stops

# Heavy Duty Cushioned Rocker Stop
Model WI2/D

The WI2/D cushioned rocker stop is used for area monitoring, workpiece pallet detection, and as a cushioned stop for transfer of pallets. This model is used for pallet payloads of 30 kg or greater.

The stop rail protrudes slightly into the transport path, and when a workpiece pallet makes contact with the stop rail it pushes the rail outward, activating a proximity switch (not included, see pg. 17-6).

The WI2/D cushioned rocker stop can be fitted with a second rocker bar and proximity switch by using the second rocker extension kit. This kit consists of a second rocker and an extension bar (see illustration). This method allows the position of the workpiece pallet to be recognized along the entire length of the rocker.

The unit is shipped with necessary fastening hardware and switch brackets. Proximity switches must be ordered separately.

WI2/D

Second rocker extension kit
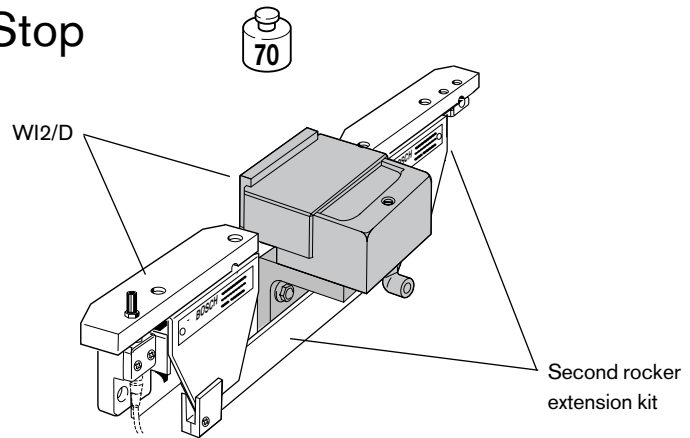
Ordering Information for Rocker Stop WI2/D and Second Rocker Extension Kit

L_{WT}			Part Number
All	WI2/D		**3 842 524 448**
	WI2/D second rocker extension kit		
L_{WT}	L_R		
400	265		**3 842 524 449**
480	345		**3 842 524 450**
640	505		**3 842 524 451**
800	665		**3 842 524 452**
1040	905		**3 842 524 453**

Dimensional data, WI2/D

16