

Wintriss Shadow[®] 8



EASY TO INSTALL
AND EASY TO USE

Safety Light Curtains from
the Press-Guarding Experts

WINTRISS[®]

Safety Light Curtains

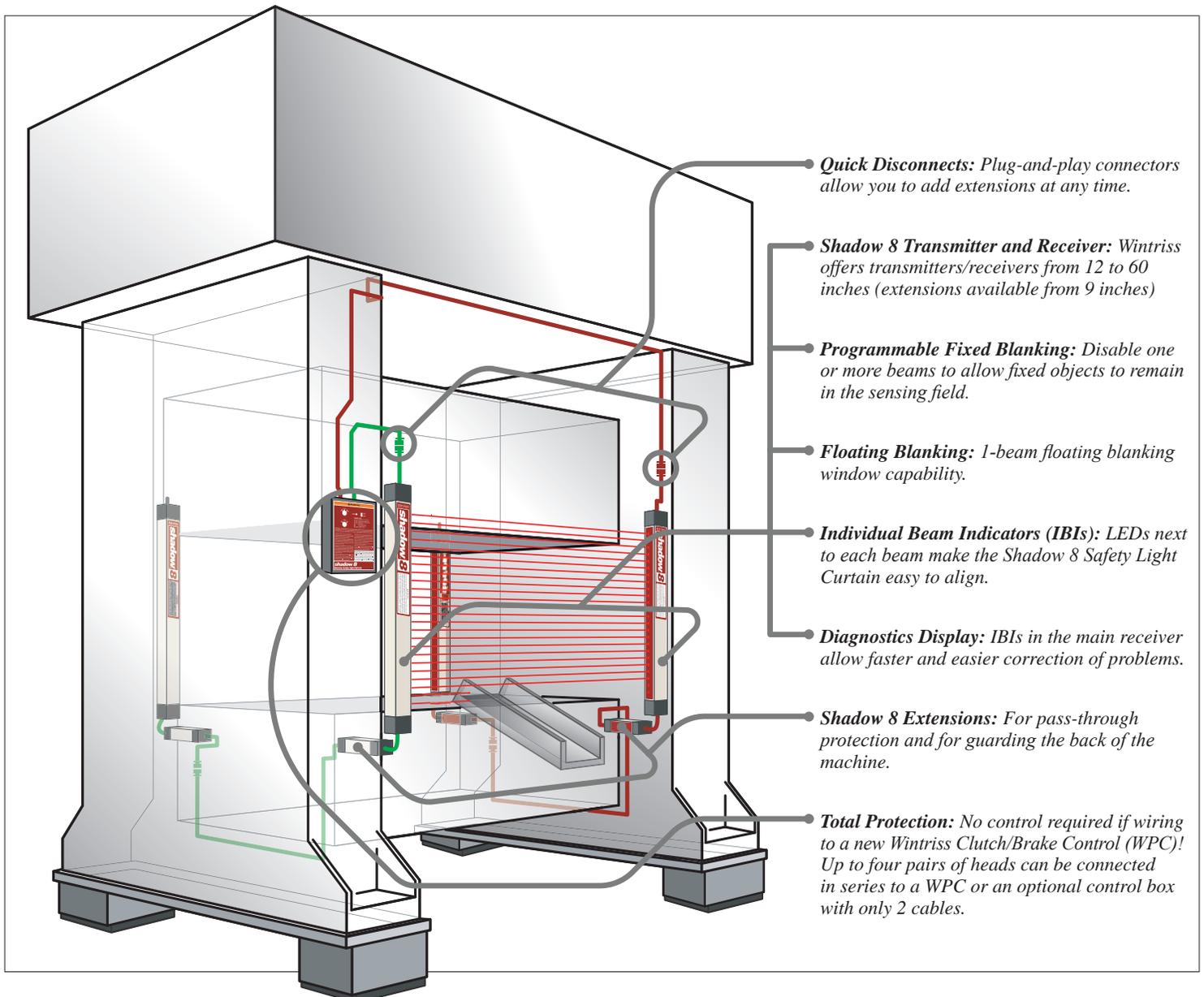
from the **Press-Guarding Experts**

Wintriss Controls has been building Shadow light curtains for more than 35 years. Designed for the toughest applications, Shadows are made to withstand the rigors of the pressroom, including severe shock, mechanical abuse and lubricant spray. With more than 45,000 systems installed, the Shadow has a proven track record.

Service & Support: Both our factory personnel and sales representatives have a thorough understanding of the various safety regulations that govern safety light curtain systems, and they keep up with changes in these regulations. At your request, we will

analyze your application and make recommendations for the proper light curtain configuration as well as any supplemental guarding that may be required. All of our light curtain systems carry a 2-year warranty, and we have a 48-hour turnaround policy on repairs.

Shadow 8: Features & Benefits



Shadow 8: Easy to Install & Easy to Use



Individual Beam Indicators (IBIs): Show which beams are misaligned or interrupted when Shadow 8 is out of alignment or obstructed. Also display blanked beams and diagnostics codes.

CONNECT UP TO 4 PAIRS OF LIGHT CURTAINS TO A WPC OR ONE OPTIONAL CONTROL

Shadow 8's unique design enables you to protect multiple sides of a machine with a single control, only one pair of cables wired to the control and up to 4 pairs of light curtains in series. You can protect both the front and back of your equipment as well as provide horizontal pass-through protection. Even a large machine can be guarded with unlimited head sizes with a single control, saving you in equipment costs and minimizing installation time. (For either transmitter or receiver, the total length of heads and interconnect cabling cannot exceed 110 feet). Further savings can be achieved by wiring heads directly to a new Wintriss Clutch/Brake Control, eliminating the need for an optional Shadow 8 control.

PROGRAMMABLE FIXED BLANKING

Fixed blanking windows disable one or more beams to allow fixed objects such as conveyors or work tables to remain in the sensing field. You simply place the obstruction between the transmitter and receiver and turn the key-lock switches on the control to the Program position. Shadow 8 senses the presence of the object and "blanks" the beams that it obstructs. The IBIs light up to indicate which beams are blanked. When the object is removed, the system will not allow the machine to run until the control has been reprogrammed to "unblank" the beams.

HELPS YOU COMPLY WITH OSHA LOCKOUT/TAGOUT

The Shadow 8 light curtains can eliminate the need to lockout/tagout during die changes. OSHA regulation 1910.147 states that lockout is not required when the activity is "routine and integral to production and personnel are protected by other guarding methods."

FLOATING WINDOW

Shadow 8 also enables you to set a floating blanking window to allow objects smaller than 1 inch to pass through the light curtain in a random pattern without interrupting operation. Floating blanking is useful when air-ejected parts or air or hydraulic lines need to pass through the field. You can use both floating and fixed blanking simultaneously.

3RD PARTY VERIFICATIONS

Wintriss has subjected its light curtains to the toughest third party certifications. Shadow 8 has undergone independent testing and certification by Underwriters Laboratories (NRTL/C) to CAN/CSA 22.2 No. 14 and CAN/CSA 22.2 No. 0.8 and by TÜV to Category 4 CE/IEC 61496-1, CE/IEC 61496-2 and SIL 3 per EN 61508. Shadow 8 complies with OSHA 1910.217, ANSI B11.1, ANSI B11.19, CSA Z142 and CSA Z432.

Shadow 8 Segmenting: Two sets of 'Shadow 8' heads connected in series for pass-through protection with only two cables connected directly to a WPC 2000.



Shadow 8 Safety Light Curtains

All specifications are the same for both Main and Extension units (except where noted).

Scanning Heights	12.6, 17.3, 23.6, 29.9, 36.2, 47.2 and 59.8 in. (320, 440, 600, 760, 920, 1200 and 1520 mm) Extension Only: 9.4 in. (240 mm)
Scanning Range	1 to 65 ft. (0.3 to 20 m). Can be set to 26 ft (8 m) to avoid cross-talk
Beam Spacing	0.79 in. (20 mm) centers
Object Sensitivity	1.18 in. (30 mm) Use of fixed and/or floating blanking increases this value
Response Time	23 mS for up to 42 in. (1060 mm) combined length with extensions 32 mS for up to 85 in. (2160 mm) combined length with extensions 41 mS for up to 128 in. (3240 mm) combined length with extensions 50 mS for up to 171 in. (4340 mm) combined length with extensions 59 mS for up to 202 in. (5120 mm) combined length with extensions With the Optional Shadow 8 Control, for N/O outputs, add 10 mS to response time; for N/C outputs, add 20 mS
Size / Construction	Optic Heads: 1.5 x 2.0 in. (38 x 50 mm); extruded aluminum; 0.1 in. (2.6 mm) wall minimum Optional Control: 7.4 x 10.8 x 2.8 in. (189 x 274 x 70 mm); 14-gauge, 0.081 in. (2 mm) welded steel with enclosure clasp
Main Cables	16, 33, 50 and 100 ft. (5, 10, 15 and 30 m) with connector at one end for attachment to pigtails on Main Receiver & Transmitter
Interconnect Cables	1, 3, 6, 10, 16 and 33 ft. (0.3, 1, 2, 3, 5 and 10 m) with connectors on both ends for attachment to Main or Extension Heads
Environmental	Heads: IP65 Optional Control: IP65 Cables: NEMA 4 connector; oil-resistant PVC cable standard Vibration: 10-55 Hz maximum on all three axes Shock testing: 10 g for 0.016 seconds; 1,000 shocks for each axis on three axes
Operating Temp	32° to 131° F (0° to 55° C)
Inputs (Heads)	Power: 24 VDC, 2.1 A max Heads: Up to 4 sets (one Main and up to three Extensions) can be connected in series as long as total length of either transmitter or receiver heads does not exceed 202 inches (5120 mm). For either transmitter or receiver, total length of heads and interconnect cabling cannot exceed 110 feet (33 m).
Inputs (Optional Control)	Power: 100-240 VAC; 0.6 A max; 50-60 Hz
EDM Monitor	For external dry contacts rated at 50 mA @ 24 VDC; 300 mS response time maximum
Light Source	Infrared light emitting diodes (LEDs). Approximately 880 nanometer wavelength
Optics	Angle of Divergence and Acceptance: ±2.5°
Outputs (Heads)	Safety: 2 Solid-State PNP, each sourcing 625 mA @ 24 VDC, short circuit protected Auxiliary (non-safety): 1 Solid-State PNP, "Follow" mode only, sourcing 100 mA @ 24 VDC
Outputs (Optional Control)	Safety: 2 cross-checked "captive contact" stop relays, one N/O, the other N/O or N/C, rated for 6A @ 250 VAC or 6A @ 30 VDC Auxiliary (non-safety): 2 auxiliary outputs, N/O or N/C, "Follow" mode only, rated at 5A @ 250 VAC or 5A @ 30 VDC
Indicators	Operating state LED indicators on Main Receiver: Amber: fixed or floating blanking enabled; Yellow: interlock or fault; Red: curtain obstructed/stop signal; Green: curtain unobstructed Individual Beam Indicator LEDs: Red on Main and Extension Receivers Operating state LED indicator on Main Transmitter: Yellow: Active
Agency Approvals	Underwriters Laboratories (NRTL/C) to CAN/CSA 22.2 No. 14 and CAN/CSA 22.2 No. 0.8 TÜV to Category 4 CE/IEC 61496-1, CE/IEC 61496-2 and SIL 3 per EN 61508.



Find out more

For more information, contact your local Wintriss representative or visit our web site at www.wintriss.com.

Wintriss Controls Group, LLC
100 Discovery Way, Unit 110
Acton, Massachusetts 01720 USA

Toll Free: (800) 586-8324
Web Site: www.wintriss.com

Wintriss Controls is a leading manufacturer of press automation, die protection and safety controls for metal stamping and forming industries; and data collection systems for all discrete manufacturing. We provide seminars for all products and OSHA compliance along with plant surveys. These products, which leverage Wintriss' 50+ years of experience in the metal stamping industry, are known for their proven performance and rugged dependability in the toughest factory environments. Wintriss equipment is backed by attentive service, timely repairs, and comprehensive spares inventories. A toll-free hotline gives customers immediate access to technical support experts for product information and applications assistance.

1139700 October 2010 KP1500
© 2010 Wintriss Controls Group, LLC

WINTRISS®